

DECEMBER 1957

National **SAFETY NEWS**

A NATIONAL SAFETY COUNCIL PUBLICATION

EXTRA—*in this issue*

**SERVICE
CATALOG
SECTION**

**POSTER
DIRECTORY
SECTION**

and how to use them

LOOKING TOWARD 1958



MIKE BIANCARDI:
Making the Most of Visual Aids



EARLE HANNAFORD:
Planning Ahead in Safety Training



DAN HAYES:
The Atom in the Safety Picture



SHARP QUEENER:
"Take-Home" Safety in '58



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National SAFETY NEWS

A NATIONAL SAFETY COUNCIL PUBLICATION

Vol. 76, No. 6 DECEMBER 1957

EDITORIAL

4 What's Ahead?

LOOKING TOWARD 1958

19 The Accident Picture for '58: Little Change—H. Gene Miller

Death and injury rates are expected to improve slightly,
but total casualties will be about the same as in 1956.

24 Atoms in the Safety Picture—D. F. Hayes

The atomic age can also be an age of safety, but only if indus-
try trains and prepares for new developments and hazards.

25 "Take-Home" Safety in '58—J. S. Queener

Suggestions for setting up an off-the-job program from a
company that has reduced these injuries 40 per cent.

26 Making the Most of Visual Aids—M. F. Biancardi

Safety men can take a tip from trial lawyers in planning
their presentations.

27 Planning Ahead in Safety Training—Earle S. Hannaford, Ph.D.

NSC offers three types of training services, will add new
courses in 1958.

50 Preview: The Year Ahead in Safety Equipment

Exclusive Report—A National Safety Council Survey

FEATURE ARTICLES

20 United for Safety in the United Kingdom—Maj. Gen. B. K. Young

British safety problems are similar to ours. Here's what
RoSPA is doing in the industrial, traffic and home fields.

22 Building Blocks for Safety Programs—Roy G. Benson

As in building a house, each piece of material must fit the
particular safety structure. Check these many aids offered
by NSC.

28 Congress Camera

The 45th National Safety Congress panorama in pictures.
Turn page

- 32 When Corrective Goggles Are Needed—E. J. Schowalter, M.D.

A prescription goggle program must consider the man, the job requirements, and program administration.

- 34 Close Decision (Diary of a Safety Engineer) —Bill Andrews

An immediate problem is solved, but does one remain that can cause big trouble 10 or 20 years from now?

- 35 Gap-osis—Robert D. Gidel

- 36 Hoist Inspection Simplified

A movable section of monorail increases safety, saves time and money.

- 40 Jet Noise on the Airport—Howard C. Hardy and James E. Ancell

Idling, taxiing, and take-off noise is one of the big problems of the jet age.

- 45 Iodine—Data Sheet D-457

A National Safety Council Technical Service.

- 48 From Across the Sea

Distinguished safety leaders from 20 nations attend the Congress and visit American industry.

EXTRA—IN THIS ISSUE

- 75 Service Catalog Section
139 Poster Directory Section

DEPARTMENTS

- 8 The Safety Valve
12 The Accident Barometer
14 Wire from Washington
16 Small Business and Associations
38 Ideas that Worked
52 The Safety Library
56 Voice of the Reader
58 Around the Compass
60 Coming Events
64 Consultation Corner
232 Safety Films
237 Personals
243 Obituaries
247 Safety Posters
252 President's Medal Awards
268 Off the Job
274 Calendar Contest Winners
277 New Safety Equipment
285 Trade Publications

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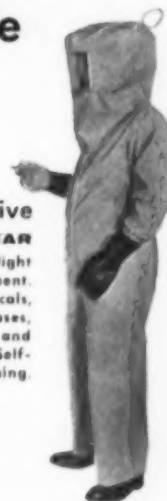
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What's Ahead?

MENTION the National Safety Council to most people and they'll remark, "Oh, that's the outfit that tells us how many people are going to be killed over every holiday week end."

While we'd rather be known for more important activities, this public interest is appreciated.

People like forecasts. The TV weather men with their maps and folksy chatter have large audiences every night. And over the national holidays TV and radio announcers keep the public informed of the score as it creeps up hour by hour toward the Council's estimates. We always hope that these warnings will induce some driver to keep a lighter foot on the gas and refrain from passing other cars on hills and curves.

At this time of year, it is appropriate to take stock of the present situation and to look ahead—to survey the accident scene in 1958 without the aid of tea leaves or a crystal ball.

Insurance actuaries, through years of mortality studies, can predict with amazing accuracy how many people will die during a year. Even epidemics and catastrophes seldom affect the totals seriously.

The insurance men cannot tell who will be among the casualties. But the numbers and causes remain fairly constant.

Based on past experience, automobile sales, weather predictions and other factors it is possible to come up with a fairly close estimate of the number of traffic fatalities.

In industry, the trend of business and its effect on employment have an important influence on occupational accidents, as well as on purchases of automobiles, appliances and homes.

We know in a general way the circumstances under which most of these accidents will occur, yet so far we have been able to prevent only a small proportion of them. Too many of us are like the farmer who brushed off the agent selling a book on scientific agriculture with "I ain't farmin' now as well as I know how."

What weapons will be available for the attack on accidents in 1958? What materials for training and communication? What physical safeguards to compensate for possible human failure? And how can they be used in our programs?

In this issue we have answered some of these questions. Two added features are included—the Council's Service Guide and its Directory of Safety Posters. These, with the articles describing the application of available services, should be helpful throughout the year.

The problem, of course, is too broad and too complex to be covered in one issue. It is hoped, however, that the suggestions on methods and techniques presented here will help to step up existing programs and start new ones.



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THE SAFETY VALVE



Nothing human is alien to me

—TERENCE

There's Lots to Learn

While the nation's safety forces were studying accident causes and cures at the 45th National Safety Congress, a speaker at another meeting in Chicago was blasting current safety effort.

Speaking before the convention of the Bridge, Tunnel and Turnpike Association, Jack W. Dunlap declared that the United States is pouring a billion dollars a year into a traffic battle it doesn't understand.

Mr. Dunlap, who is president of the human engineering and research firm of Dunlap and Associates, says "almost nothing" is known about what causes accidents and how they can be prevented. He called for an all-out program of scientific research to get the answers.

He is on solid ground there. Many other organizations have been urging that for years.

Mr. Dunlap says little is known about:

- Human behavior that leads to accidents.
- How highway design and operation are involved.
- The relationship of motor vehicles to accidents.
- The effectiveness of safety campaigns and traffic laws.

Badly collected, improperly analyzed and incorrectly interpreted statistics are the basis of most safety campaigns, he says. This blanket damnation would probably include both government agencies and voluntary associations.

Sadly, we admit that Mr. Dunlap is correct on several of these counts. Those who have been battling accidents for years do not need to be reminded of the inadequacy of their efforts. To illustrate, we refer to President Dearborn's report at the Congress as summarized in the November News.

The trouble is not so much that we don't know the causes of accidents; we don't know what to do about them.

Take human behavior, for example. For years, psychologists and psychiatrists have been studying the human mind. As a result, they have come to some rather definite conclusions about behavior patterns.

Unfortunately, these studies run up against an inescapable fact; people are all different and all unpredictable. Also, the same person changes mentally, emotionally and physically from day to day. Even safety men have lapses.

Anybody who can solve this human riddle will deserve a place among the world's benefactors—along with Lister and Pasteur. The benefits would extend far beyond accident prevention; control of crime and mental illness would also be aided.

And with the human problem under control, the purely mechanical obstacles shouldn't be too difficult.

* * *

It is to the material advantage of a manager to treat his people as honorable individuals; reward them justly; encourage them; keep them informed; assign them properly; give them and their work meaning and dignity.—LAWRENCE A. APPELY, *Management in Action*.

Malice Toward None

In the *Voice of the Reader* this month is a letter from Mr. Nathan Feigenblatt, Jr., taking exception to a piece, "Not Sporting?" in the *Safety Valve* for October. It had a few dispassionate remarks about people who object to using radar and unmarked cars to catch traffic violators.

Mr. Feigenblatt interprets those comments as evidence that things must be getting hot for the Council and, in his opinion, those who advocate such low-down tactics will feel the wrath of an outraged citizenry.

I wasn't aware that things were getting hot for the Council. I didn't write that piece to appease anybody. If I remember correctly, the idea came from a speech by some insurance man.

The Council has critics, of course, but there has been no widespread objection to scientific methods of traffic control. There is justifiable objection to enforcement for revenue rather than safety. But with speed limits clearly indicated and conspicuous warnings of electrical timing the violator has no good reason to squawk.

Most people, I have observed, drive with reasonable care and skill. As for the occasional exception, getting pinched in time might save him from a worse fate.

Enforcement may indicate that we have failed, as Mr. Feigenblatt declares, but in our present state of development, it is difficult to see how we can dispense with it.

Let me make it clear that opinions expressed on this page are those of the undersigned, not necessarily those of the National Safety Council. My sponsors have given me complete freedom of expression here but I would never intentionally say anything contrary to the spirit of the safety movement.

* * *

Highway sign at outskirts of Woodstock, Ill.: "No radar, no electric timing—Please drive carefully."

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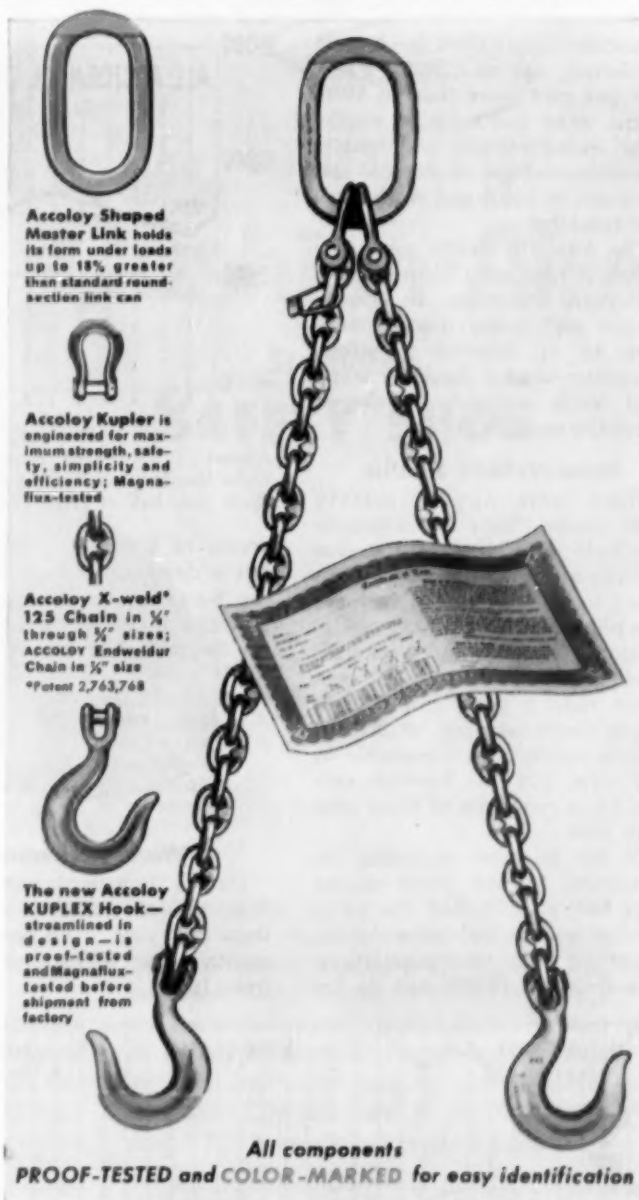
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Circle Item No. 6—Reader Service Card

ACCO

THE ACCIDENT BAROMETER



Prepared by the Statistics Division,
National Safety Council

ACCIDENTAL DEATHS in August numbered approximately 8,600, or 4 per cent more than in 1956. There were increases in deaths from motor-vehicle and public non-motor-vehicle accidents and decreases in home and work accident fatalities.

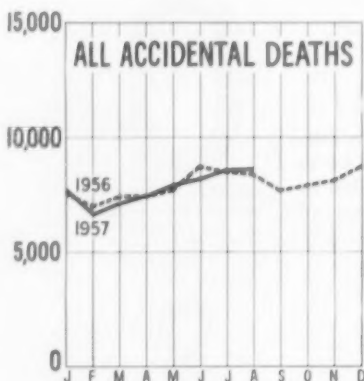
The 8-month death total was 62,300, a negligible change from last year. Decreases in motor-vehicle and home deaths were offset by an increase in public non-motor-vehicle fatalities while fatal work accidents numbered about the same as in 1956.

Motor-Vehicle Deaths

There were approximately 3,790 deaths from motor-vehicle accidents in August, an increase of 5 per cent over last year. Compared to 1955, it was an increase of 6 per cent.

Deaths during the 8 months totalled 24,730, or 2 per cent fewer than a year ago. The 8-month death rate per 100,000,000 vehicle miles is not available at this time, but the 7-month rate was 5.5, a reduction of 8 per cent from 1956.

Of the 46 states reporting for 8 months, 26 had fewer deaths than last year, 2 had the same number and 18 had more deaths. Reporting cities with populations of more than 10,000 had an in-



| | | | |
|--------------|--------|--------|--------|
| August | 1957 | 1956 | Change |
| August | 8,600 | 8,300 | +4% |
| Eight Months | 62,300 | 62,600 | 0* |

*Less than half of 1 per cent.

crease of 4 per cent for August but a decrease of 1 per cent for the 8-month period.

Regional changes from 1956 in the 8-month motor-vehicle death totals were:

| | |
|----------------|-----|
| North Atlantic | -1% |
| South Atlantic | -3% |
| North Central | -5% |
| South Central | -7% |
| Mountain | -3% |
| Pacific | -1% |

Work Accidents

Deaths from work accidents in August totalled 1,200 or 100 fewer than last year. The total for 8 months was 9,700—no change from 1956.

The August frequency rate per million man-hours in 18 sectional, accident prevention contests conducted by the National Safety Council was 5.70, a reduction of 10 per cent from last year. The August rate for plants in community council contests was 6.41, an increase of 33 per cent. The 8-month rate in sectional contests was 5.38, down 5 per cent while in community council contests it was 5.51, up 4 per cent.

Public Deaths

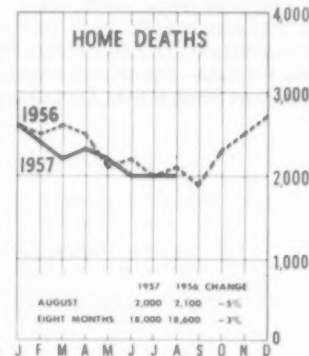
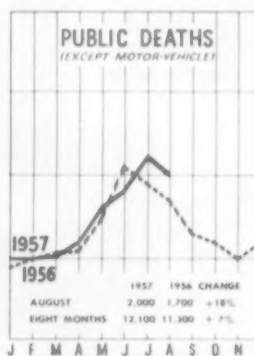
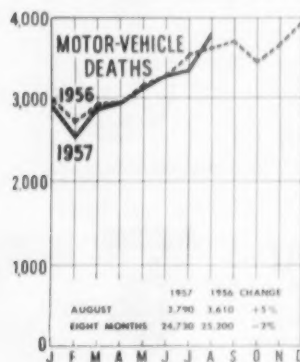
Public non-motor-vehicle deaths in August numbered about 2,000, an increase of 300 over 1956.

Deaths during the 8 months totalled 12,100, an increase of 7 per cent over last year. Most of the increase occurred in deaths from burns and falls but deaths from drownings and firearms accidents also were more numerous while transportation accident fatalities were fewer. Aside from a decrease in deaths of young people 15 to 24 years old, all age groups showed increases over 1956.

Home Deaths

Deaths from home accidents numbered about 2,000, or 100 fewer than in August a year ago.

The 8-month death total was 18,000, a reduction of 3 per cent from 1956. There were decreases in deaths from poisonings, burns and falls, an increase in fatal firearms accidents and no change in mechanical suffocation deaths. Increases occurred in deaths of children 5 to 14 years of age and young people 15 to 24 years old. Other age groups showed decreases with the greatest improvement noted for persons 25 to 44 years of age.



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By Harry N. Rosenfield

Washington Counsel, National Safety Council

ALTHOUGH PREOCCUPIED with world-shaking developments, official Washington continues with its day-in and day-out task of working at safety.

Industrial Safety. Atomic energy, in one form or another, is a growing area of safety concern. Nuclear reactor safety evaluation and research programs to assure safe reactor design were discussed by government and industry representatives, in a Reactor Safety Conference jointly sponsored by the Atomic Energy Commission, the American Nuclear Society and the Atomic Industrial Forum. The purpose of the conference was to acquaint the private atomic energy industry with up-to-date information on nuclear safety. The AEC revealed that it is building three research reactors exclusively for safety studies, in addition to three now working full-time on this purpose and another part-time.

Three labor unions which are trying to block construction of a nuclear reactor in Michigan, basing their argument in considerable part on safety considerations, have renewed their request to the AEC to suspend the permit granted for this project. (See "Wire," Dec. 1956)

The Surgeon General of the United States Public Health Service stated that public health "has not yet taken its proper place in radiation protection." He said that the increasing medical and industrial uses of fissionable materials "place this responsibility in the realm of community health protection," and announced appointment of a consultant on radiation protection.

The Surgeon General also announced appointment of an Advisory Committee to the National

Health Survey. (See "Wire," May and June 1956) By early 1958, the Public Health Service hopes to begin issuing regular statistical reports on the prevalence and disabling effects of illness and accidents.

According to the president of the International Association of Machinists, the labor movement is not satisfied with present legislation in industrial safety, workmen's compensation and occupational diseases. The labor union official charged that there was a lack of enforcement of safety codes and regulations and that many American workers were being exposed to dangerous poisons and chemicals because of the lack of protective legislation. He suggested comprehensive federal workmen's compensation and occupational disease legislation to replace existing state legislation, but admitted that he had no hopes for enactment of such legislation "in the foreseeable future."

The Interstate Commerce Commission and the Coast Guard both made extensive amendments to their respective regulations on the transportation of explosives and other dangerous articles.

Marine Safety. On invitation from the Coast Guard, some of the country's leading public and private authorities in merchant ship design, building and operation met to initiate a re-evaluation of existing standards of vessel watertight subdivision, damage stability, and ballasting. Growing out of the collision between the *Andrea Doria* and the *Stockholm*, a recommendation for such study was made by the House Committee on Merchant Marine and Fisheries. Out of the findings of this investigation and others will be developed the proposals to be sub-

mitted by the United States for consideration at an anticipated Conference on Safety of Life at Sea. (See "Wire," Feb. and Sept. 1957)

The Secretary of the Treasury called a National Small Boat Safety Conference for mid-December, as a result of a recommendation made by the House Merchant Marine and Fisheries Committee. Among items to be discussed are: ways and means of educating the boating public on safety rules; adequacy of existing regulations concerning equipment required to be carried by motorboats; and ways and means of making a statistical study of recreational boating accidents.

Traffic Safety. In an address during the National Safety Congress, Congressman Roberts, chairman of the Special Traffic Subcommittee of the House of Representatives, stated that "the horrendous number of traffic accidents . . . clearly places highway safety in the national picture." He warned that "greater progress must be shown or the public will demand national action."

He indicated that he would press for action on four bills, in particular. Two are his own bills, H.R. 7882, which requires any seat belts shipped in interstate commerce to meet federal specifications, and H.R. 5416, which would provide federal funds to assist states in establishing driver education courses.

The legislator indicated that he would also press for action on H.J. Res. 221 (Beamer), to grant Congressional consent for interstate compacts to promote highway safety (particularly in the realm of uniform traffic legislation), and on H.R. 794 (Multer),

—To page 250



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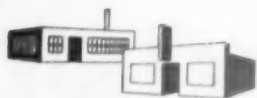
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SMALL BUSINESS and ASSOCIATIONS



By A. M. Baltzer and John T. Curry

Small Business Program Staff, National Safety Council

A Report on Our Small Business Program

Committee Organization

The Small Business and Associations Committee is the largest and probably the most active in the Industrial Conference. About 10 years old, it was the natural merger of separate committees of the Conference dealing with small business and association safety activities.

The Committee continues to enjoy the support of experienced safety leaders representing the mutual and stock insurance groups, state and local safety organizations and associations of all types. Its new chairman, Clyde Schlueter, manager, accident prevention, Employers Mutuals of Wausau, has strengthened the Committee by adding executives from the U. S. Chamber of Commerce and other nationally-known groups which can reach and influence associations and civic groups.

Committee members participate in various ways. Most of them are able to attend at least one or two of the business meetings held in connection with the Industrial Conferences; others render valuable help through consultation and advice through correspondence. The staff is fortunate in having such an enthusiastic and experienced group to guide its activities.

High Hazard Project

The High Hazard Program gets top priority in our plans for 1957-58. At the October 20 meeting of the Committee, plans for the coming year were unanimously endorsed and the staff was urged to concentrate and expand on the work done with associations representing the high hazard industries. Plans are being made for special conferences of association executives, similar to those held in Washington and New York.

Small Business Film

The sound, motion film, *Safety Doesn't Happen*, which is available on a free loan basis for single showing to groups of small business owners and managers, is still available to associations, chambers of commerce, local safety organizations and other groups. Some groups report that they have practically worn out their prints through constant showing to such groups.

The Committee was gratified that its film was one of two Council movies to receive the Award of Merit from the National Committee on Films for

Safety. Invariably, safety men and managers who see it comment favorably upon its realistic approach to the problem of the smaller firm which has no professional safety man. Have you used it yet?

Jay-Cee Project

The Committee proposed that the U. S. Junior Chamber of Commerce give Jay-Cee chapters special credit in the 1957 achievement plan for arranging showings of our film. Because of the excellent work already being done by many Jay-Cee chapters on traffic safety, bicycle safety, etc., the U. S. Junior Chamber of Commerce decided against a special project involving this industrial film, but they have publicized its availability and are otherwise encouraging showings of the film at the local level.

Association Memberships

No serious loss of association memberships has occurred because our greatly improved service more than offsets the dues increase. Associations now have the privilege of buying quantities of Council material at member prices for distribution to their members, and many associations are taking greater advantage of our consultation service.

Publicity

The American Society of Association Executives granted an Award of Merit for the Council's outstanding safety program in behalf of associations. The Pressed Metal Institute also presented the Council with its annual award for outstanding safety activity in the association field.

One of the monthly *Here's How* bulletins of the American Society of Association Executives featured an article explaining the Council's association program; a number of association newsletters and bulletins regularly list Council publications and many of them recommend Council publications and encourage membership in the Council.

Our *Associations Newsletter* is sent out bi-monthly to approximately 1,000 association executives, local safety council managers, section association committeemen and other section officers on our complimentary mailing list. During the year, various reprints and publications such as our leaflet, *Seven Steps to Safety*, are also sent to those on the list. Of course, those interested in receiving such material are invited to write.

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- **Zenith** — symbol of Quality in Radio, Television, High-Fidelity Sound Reproduction, as well as in Hearing Aids — has been a leader in precision electronics for over a third of a century. This same leadership applies to Zenith's thorough and effective dealer training — assuring your employees of the knowledge and understanding of highly trained and experienced hearing aid sales personnel.

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Circle Item No. 10—Reader Service Card

National Safety News, December, 1957



By H. GENE MILLER

The Accident Picture For '58: Little Change

Small improvements foreseen in death and injury rates, but total casualties will remain high

TOTAL work deaths and injuries probably will be about the same in 1958 as in 1957.

Indications at this time are that 1958 will be another year of good economic activity, with a possibility that total employment may even equal 1957.

In this situation, it is probable that work deaths and injuries will hold at the 1957 levels or even decrease somewhat since studies show that changes in these totals tend to follow changes in employment. (1957 death and injury totals are not known at this time, but they are running about even with the 1956 totals of 14,300 deaths and 2,000,000 injuries.)

During the years for which data are available, the rate trend of work deaths has been steadily downward from a high of around 40 (deaths per 100,000 workers) in the mid-1930's to a low of 23 in 1956. Although the number of work deaths edged upward from a low of 14,000 in 1954 to 14,300 in 1956, and probably will hold at the latter level in 1957, it is expected that the rate of deaths will remain at or near the 1956 level of 23 per 100,000 workers.

Injury Rates

Disabling injury rates in 1958 will be lower than in 1957, but it seems unlikely that gains will be large.

In 1956, the frequency and severity rates of disabling injuries were at the lowest levels on re-

cord for companies reporting to the National Safety Council. Reports on which these rates are based are submitted only once a year, so it is not known at this time what the 1957 rates will be, but reporters in the Council's contests are showing lower frequency rates on the average in 1957 than they did in 1956. On this basis, it is expected that the final 1957 rates will be somewhat lower than the 1956 rates of 6.38 and 733, respectively, for frequency and severity, and some further improvement is likely in 1958.

The average frequency rate of Council reporters has been lower each year since 1946. The severity rate has been generally lower, although there have been small increases in some years. With no let-up in the effort directed at work accidents, there seems justification for forecasting that both of the rates will be lower in 1958 than in 1957, although further improvement in 1958 probably will not be large.

Time Lost

Time lost in 1958 from work accidents which will happen in 1958 will total about 240,000,000 man days — about equal to a year's work of 1,000,000 employees. An additional 135,000,000 man days will be lost in future years from 1958 accidents.

Of the 240,000,000 total, about 50,000,000 days will be lost by the injured workers themselves, and another 190,000,000 days will be lost by workers other than those

injured when these persons stop to help the injured or to discuss the accidents. Slow-downs resulting from temporary reductions in efficiency by persons witnessing serious accidents, suspensions of work caused by damaged equipment, and the time required to replace damaged products, machinery and structures, also are included in this total.

Costs of Accidents

Work accidents will cost about \$4,250,000,000 in 1958 if the rising cost trend of recent years continues.

No actual data are available since 1956, but in that year the figure was \$3,750,000,000 representing an increase of \$250,000,000 over 1955, and \$600,000,000 over 1954.

Of the \$4,250,000,000 total, wage losses probably will be about \$1,250,000,000, while medical expense and overhead insurance costs will be another \$1,000,000,000. In the latter figure, the insurance item will be somewhat over half of the total.

A minimum estimate of indirect costs is included at \$2,000,000,000, and covers only the money value of damaged equipment and materials, production delays, and time losses of other workers not involved in the accidents.

Off-the-job Accidents

Workers suffer more than twice as many deaths and about one-fifth more injuries off the job than they do on the job, and these

—To page 237

H. Gene Miller is Director, Statistics Division, National Safety Council.



UNITED FOR SAFETY IN THE UNITED KINGDOM

By MAJ. GEN. B. K. YOUNG

I BELIEVE that most accidents are preventable; the arch enemy of prevention is that attitude of mind that says "it couldn't happen to me." People who think like that are going about with their eyes shut, deceiving themselves into thinking that it is always the other fellow who meets trouble.

It is our experience that the safety worker's weapons are those of education, enforcement and engineering, and that there are no short cuts. Steady and persistent persuasion, allied to enthusiasm and energy, will produce results, despite minor setbacks and apathy.

There is no doubt about what the three E's of accident prevention can accomplish if given a chance, but it is our experience that, though each of the three can individually accomplish a great deal, they can do far more if they are working continually and in the closest possible co-operation. The Royal Society for the Prevention of Accidents (RoSPA), generally speaking, confines itself to education and all that it im-

GENERAL B. K. YOUNG is Director General of the Royal Society for the Prevention of Accidents (RoSPA), London. He has had a distinguished military career, serving during World War I in France, Belgium, the Balkans, and Palestine. In World War II he served in the Middle East, North Africa and Sicily. After the war he joined RoSPA and became its director general in 1951. This article has been condensed from an address at the Annual Meeting, 45th National Safety Congress, October 21, 1957.



General Young

plies, but it doesn't believe in working in a watertight compartment. So it maintains very close liaison and cooperation with those responsible for enforcement and engineering. We also believe in a fourth E—Enthusiasm.

Reduced to its simplest terms, we believe that the actual implementation of a safety program in any field must be undertaken locally. It is the local safety worker who knows local conditions and can add the necessary local color to a national program. RoSPA, in conjunction with the appropriate Government Departments, selects the campaign theme and produces and makes available for the local workers the necessary material, posters, leaflets etc. Special national campaigns are imposed, as thought fit, on top of

the steady, year-round work. These may be from a week to three months' duration.

We have found that central planning goes far to ensure that at the appropriate and same time, all over the country, a simultaneous attack is launched locally using the same material and all directed to one particular and identical aspect of accident prevention. By this means we consider that we have achieved maximum penetration of the public mind. In this we get very great help from the press and radio.

I want to deal briefly with that other ever-present problem—finance. We never seem to have enough! I think to a very considerable extent safety can be bought—and it is just because we feel we would like some more safety that we wish we had more money with which to buy it. In financial matters my Society does work in watertight compartments; each activity, road, home, industrial, agricultural safety is financially separate and funds obtained for one activity or branch of our work are not available for another. We rely on subscriptions for our income. These come from a variety of sources—local authorities, industrial firms, transport organizations, insurance interests, etc. It is only in the field of road safety that we receive a Government grant.

To give you some idea of our task, we have in Great Britain a population of just 50 million who own some 7 million vehicles

Through the Royal Society for the Prevention of Accidents, British safety forces are extending their influence in the industrial, traffic and home fields

which they use on about 188,000 miles of roads which were not built for them. Of our population of 50 million there are on the average 11 million employed in those industries which come under our Factories Act and with which my Society is concerned.

On an average in Great Britain 50 people die as a result of some accident every day:

17 in some form of travel:

15 on the roads

1 on railways

1 in air & water transport

5 in place of work:

2 in factories

1 in coal mines

2 in farms & quarries

7 miscellaneous; e.g.

drownings, sports, falls, etc.

21 in the home

Industry's Experience

The annual toll of accidents averages 700 killed, and injuries to between 180,000 and 190,000. Machinery accidents are very much in the minority, only about 16 per cent; the remainder are human failure or error accidents and include falling, handling of materials, being struck by a falling object, tripping, etc. House-keeping not good enough is certainly a contributory factor. There is at present an annual increase in transportation accidents within the factory perimeter due to the fact that in many cases the internal traffic system was not designed for power trucks, fork lift trucks, mobile cranes, etc.

Safety standards in industry are fixed by Parliament by means of the Factories Act which is implemented by the Factory Inspectorate. We regard this official standard as the bare minimum and use it as the base from which springs the voluntary accident prevention work sponsored by my Society.

We believe that safety in industry must be the concern of all

from top management, all the way down the line, to the man on the shop floor. A good safety record should be the concern and pride of employer and employee alike. The safety officer is not an executive; his duties are advisory. He should be brought into the first planning stages of the design of a new factory or the expansion or alteration of an existing one. Safety should be an integral part of any training program for new entry. There is no sense in spending money on a new machine and only training the operator how to use it; it is equally essential to train the operator how to use it *safely*, if only because an accident to the operator may well cost the employer more than the cost of any damage done to the machine.

The Society holds residential 14 day courses for safety officers and has taken great pride in fathering the birth of the new sturdy institution of industrial safety officers. To retain contact and encourage the vital interchange of safety ideas and experience we have now Industrial Safety Groups operating in all the main industrial areas. The Society produces a technical safety journal (*The British Journal of Industrial Safety*) and an *Industrial Accident Prevention Bulletin*, together with a series of safety codes and propaganda material.

Local Cooperation

We plan and initiate centrally an annual campaign, obtaining locally the cooperation of our industrial members and their safety officers, of local civic heads and of chambers of trade and commerce. These campaigns are usually for a week or 10 days; we completed our 1957 special campaign just before I left home, with the theme "Guard Your Hands."

Our annual road fatalities are about 5,250 and the injuries

250,000. I must add that according to the International Road Federation we have a vehicle-per-road-mile density of nearly 21 against your 17, and that does not include the large number of motorcycles (more than 1,250,000). We take some pride that the continuous campaign (1) is holding these figures despite more vehicles on our roads and an increasing population at risk; (2) has reduced the annual fatalities from 7,000 at which figure they were running 25 years ago; and (3) has over the same period reduced child deaths from 5 a day to less than 2.

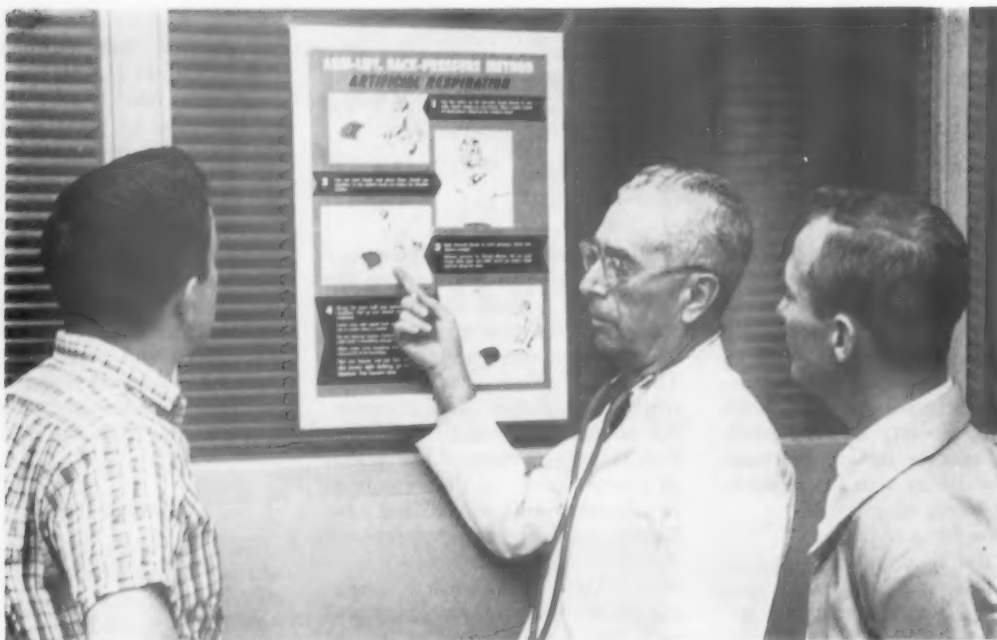
Human Traits

As in industry, an examination of road accidents shows that some 80 per cent should never have happened. They are due to a human breakdown such as ignorance, showing off, breaking the law, drink, lack of courtesy to others, etc. It is a strange reflection on the human character that everyone always claims to be a good driver; indeed, if I asked whoever was driving me if he was really competent, that individual would be most insulted! On the other hand, if I asked someone, a stranger, to play golf he would most likely say he probably wouldn't be good enough; in fact, he would not claim to be a plus player—but he thinks himself plus in the driving seat.

We believe most sincerely in road safety education from the moment the child goes to school at about five years old. A start is made with the kerb drill (how to cross a road) and progresses to cycle training and a proficiency test. Through motorcycle clubs we are trying to teach and train the young motorcyclist. In all this we have the most excellent help of police and teachers.

I believe the child cyclist and the young motorcyclist are greater problems with us than with you. We are most anxious to carry on this progressive training so that the young teenager can be properly taught how to drive. If the next generation is properly trained in road sense, and taught to be defensive driv-

—To page 72



POSTERS cover the complete accident cause range. Nearly 1,000 selections are available during the year.

Building Blocks For Safety Programs

A vast array of NSC materials is available to help you sell safety. Here's how to use them effectively

By ROY G. BENSON

CAN you tell me how to start a safety program?

That's probably the toughest question that any member of the Council's industrial staff has to answer.

It's like walking into a building contractor's office and saying, "I'd like to have you build me a house," without giving him the size of lot, number of rooms, how much you want to pay, or any

of those rather unimportant specifications.

Like the contractor, we have all sorts of building materials on hand, from which successful safety programs are built, but each piece must be adapted to your own particular safety structure. Perhaps it would help if you had some idea as to what the creators had in mind when the different items were devised.

Posters

Posters are probably the simplest and best known items in our

list of materials. In the design of a poster, there is only one simple message that is to be conveyed. The picture and caption should combine to carry a safety message which the viewer can carry out without help. It may be merely a safety attitude or a specific instruction such as "walk, don't run."

Posters should be placed in spots where people have a tendency to stop, or where workers can see them when they look up from their work. Specific posters, of course, would be placed where

Roy G. Benson is Assistant Manager, Industrial Department, National Safety Council.

the particular message would have maximum effect.

Posters are reminders that keep reiterating the fact that in addition to whatever we produce in this plant, we are also interested in safety.

Posters should be changed frequently. If they become "dog eared" it reflects a disinterest in the safety program. Many plants change their posters every two weeks to maintain the feeling of continuing interest. Like some advertisers, there are safety departments that post the same poster throughout their plant to concentrate on one message. Others carefully select their posters for specific hazards and post them in the various areas in accordance with these hazards.

Posters are designed both for seasonal and to cover the complete accident cause range. In any case, the program selected can be satisfied from the close to 1,000 selections available during the year.

Jumbo posters, placed where both the public and the worker can see them, call attention to the fact that we want all to know that we are interested in our workers' safety.

Many shops have large bay areas where workers are at some distance from the wall areas needed for displaying posters. For this situation, banners were devised which could be hung overhead and were large enough



SEVEN BOOKS of talks provide the foreman with the tools he needs to sell safety to his men.

to be seen at a distance. Now a new design is available each month on a subscription basis.

Employee Booklets

There are three different categories into which the Council's industrial employee booklets can be classified:

Safe Worker, *Safe Builder*, and *Safe Railroader* are monthly publications that are used in programs where a light safety message is desired at regular intervals throughout the year. In the case of the *Railroader* and *Builder*, the message is specific for the railroad and construction industries. *The Safe Worker* is broad

in application and useful in most industries.

The second type of employee booklet, usually issued once a year, is an attitude booklet. Every once in a while it is advisable to shake up your audience with a provocative subject. Such a booklet was the one entitled "Do We Still Need Safety." This booklet debated the question of need for safety when so much automation had been introduced into industry.

"What's In It For Me" argued the point, who benefits most from a safety program. A new title now on the press called "We Know Better" asks the reader to think about why we do so many foolish things that cause accidents when we really know better.

Attitude booklets are particularly useful in well established programs to give the workers some thought-provoking ideas.

Another type of employee booklet deals with specific subjects such as fire, health, housekeeping, or falls. These booklets are used when there is a desire to place special emphasis on a particular accident-causing factor.

There may be a time of the year when one booklet is particularly adaptable, such as the fire booklet during fire prevention week, or housekeeping in the spring. Since accident prevention is a year-round effort the booklets cannot be termed strictly seasonal, but

—To page 263



ABOVE: Safetygraphs illustrate a problem on the front, carry the talk on the back.

LEFT: Cartoons like this liven the pages of *The Safe Worker* magazine.



Atoms in the Safety Picture

The future of safety in the
uses of atomic energy

By D. F. HAYES

ACCIDENT prevention as a function of our industrial and domestic life becomes both more necessary and more complex with each new invention and application of scientific knowledge. This is obvious to the most casual observer of the many new chemicals being discovered, the higher power available in new mechanical equipment, and the increasing complexity of industrial processes and systems in production. Of no other endeavor of mankind may this be more truly said than of the nuclear industry.

The additional knowledge of the nucleus of the atom and its application has also been accompanied by new uses of nature's elements, which were only recently laboratory rarities, and the discovery of some altogether unknown or unseparated in nature. New chemical and metallurgical industries have rapidly grown up in order to fulfill the needs for new materials and the machinery for their use.

Nuclear energy is at the threshold, or over the threshold, depending on one's point of view, as a source of power. The equipment in nuclear laboratories, power plants, factories, and ships is of such a character to strain language for names. The processes and systems involved require new skills and changes in old ones.

Nuclear power is already being applied to the propulsion of ships

and for domestic use. In a few months, several new power plants will go on stream using power produced in several types of nuclear reactors. New uses for isotopes are being found daily in laboratories and in factories.

With all these developments, come new hazards which must be met without delay.

In our complex industrial life and in the field of nuclear energy specifically, accident prevention will depend upon refinement, modification, and improvement of the techniques we now use, and imaginative new ones, to assure that we can live safely in the new environments created.

New Processes, New Risks

In the last 100 years, many new machines and methods have brought with them new hazards with which we have had to contend. In spite of the danger to life and limb in the growth of high pressure steam, the use of gasoline, new toxic chemicals, high speed and complex operations, we continue to prosper and to attain safety with great efficiency.

The trend in industrial accidents has been downward for 20 years. In the next 50 years, or even less, we will see similar growth of nuclear energy and its integration into our everyday living. So far, accidents and injuries resulting from the industrial use of nuclear products have also been low.

Since one of the principal benefits is energy, nuclear produced

power will eventually be applied in many ways in many industries, just as electricity and chemical fuels have been integrated. Radioactive isotopes already account for savings estimated at 300 to 500 million dollars per year.

Perhaps the most proper prediction one could make about accident prevention in nuclear energy would be that many more people will come to know about it, its uses, and its benefits. At the pace of industrial development today, this will come about in a relatively short time.

There will be a serious effort required on the part of engineers to apply well known accident prevention methods and to acquire knowledge of new and more precise measures.

To keep up with the new developments, accident prevention will depend and be accompanied by knowledge and emphasis on more complete pre-evaluation of hazards and conscientious preventive action, safe and "fool-proof" design, remote and electrical controls, measurements by instrumentation, "fail-safe" arrangements, development of basic standards, and specific operating procedures, and on careful training of the industry's working population.

Perhaps the latter will be the most important since there is a need for technically trained people. One may predict that every industry using nuclear energy will increase the time and attention given to training their working populations in safety. The "atomic age" could also be an "age of safety."

D. F. HAYES is Chief, Safety and Fire Protection Branch, United States Atomic Energy Commission, Washington, D. C.



"Take-Home" Safety in '58

By J. S. QUEENER

Of deep concern to safety-minded management is the high incidence of off-the-job accidents involving employees and their families. Industry can benefit through nation-wide and community campaigns as well as through programs dealing directly with employees. Here are some highlights of the Du Pont program which may be helpful to others.—THE EDITORS.

The following remarks will apply primarily to companies which have well developed on-the-job safety programs rather than to those who are just beginning to develop such programs. Perhaps the on-the-job frequency rate has reached a plateau or a level from which it is seemingly difficult to break through for a better performance. Under such circumstances there is particular justification for planning an off-the-job injury program.

In the Du Pont Company, attention has been given to off-the-job safety for many years but only in the past five years has it become an integral and specific part of the Du Pont safety program. Emphasis which has been given to off-the-job safety is a

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direct reflection of the company's continuing concern for the welfare of the individual and his well-being. It has nothing to do with paternalism. Experience had proved that safety training and safety thinking created at company locations did not carry over as effectively as anticipated into employees' off-plant activities. Too many employees were being injured off the job.

If the attempt to develop a safety state of mind in each employee were to be successful, it became evident that the effort should be extended to an around-the-clock basis. Du Pont experience indicates that frequency of on-the-job injuries has been reduced about 40% since the introduction of the off-the-job program; employees have become

—To page 230

DU-PONT OFF-PLANT SAFETY ACTIVITIES

| Nature | Locations That Have Used Them |
|--|---|
| A. MANAGEMENT ATTENTION | |
| 1. Data reported and commented on in Central Safety Committee meetings. | Many locations. |
| 2. Off-plant safety sub-committees. | Lake City Arsenal, I.O.W., Niagara Falls. |
| B. INJURY REPORTING | |
| 1. Time-losing injuries reported and publicized on safety performance chart. | All plants and laboratories. |
| 2. Bulletins released on injuries and near injuries. | Experimental Station. |
| 3. Newspaper articles on injuries and near injuries. | Many locations. |
| 4. Reporting all off-job injuries (minors as well as time-losing) | Savannah River. |
| C. PUBLICITY | |
| 1. Leaflets or booklets. | General Services Dept., I.O.W. |
| 2. Letters to supervision. | Ilion. |
| 3. Letters to employees. | Newark, Yerkes Film. |
| 4. Prominent articles in publications. | Belle, Engineering Dept., "Better Living" Magazine. |
| 5. Special posters. | Ilion, Lake City Arsenal. |
| 6. Plant displays. | Ilion. |
| D. SPECIAL CAMPAIGNS AND PROGRAMS | |
| 1. Flannel Board Safety Meeting Presentation. | Louisville. |
| 2. Summer Safety Show. | Chambers Works. |
| 3. Safe Drivers League. | Engineering Dept., Louviers. |
| 4. Driver Training. | Experimental Station. |
| 5. Safety Tips on Home Repairs. | Clinton. |
| E. FAMILY PARTICIPATION | |
| 1. Give-aways. | Repauno. |
| 2. Plant visits with safety theme prominent. | Belle, Repauno, Pompton Lakes. |
| 3. Plant picnic safety activities. | Baltimore, Repauno. |
| 4. Off-plant safety slogan contest. | Du Pont Works. |
| 5. Essay Contest. | Old Hickory Rayon. |
| 6. Family Contest. | Repauno. |



Making the Most of Visual Aids

By M. F. BIANCARDI

WHEN they present their cases to supervisory and employee audiences, safety personnel would do well to take a tip from prosecuting and defense attorneys in our courts.

Attorneys in court rely heavily upon visual evidence—"exhibits" is the legal term—to get their points across to juries. Safety men often use any of numerous visual aids to assist in telling the safety story, but they could more completely follow the lead of the attorney in planning the use of these aids.

Just as the attorney plans for the introduction of his exhibit at the right time, for an exact purpose or to create a predetermined effect, so should safety personnel plan the use of their visual aids.

From the above comparison one could gather that visual aids include more than the popular motion picture. Actually, a visual aid could be defined as anything that helps the safety man put his idea across to an audience.

In addition to movies, as we all recognize, visual aids include sound slide films, still slides, models, plus opaque and overhead projectors. Visual aids need not be expensive. They include mounted photographs and drawings, flannelboard presentations, flip charts, bulletin boards, "pass out" or run-off copies, group participation and use of the faithful standby, the blackboard.

If the budget allows, visual aids can include the movie, opaque and overhead projectors. If the budget is tight, the aids can be mounted photographs and letter-

ing from magazines, or a rough sketch you draw on a flip chart.

In addition to helping get a more difficult point or subject across, visual aids can be used to put the same point across by varying the presentation. They can also be used as an "ice breaker," like, for example, showing a film on safety in sports for a class of new employees or safety committeemen and then relating safety procedures to the home, highway, and job.

Visual aids are also good as recall items for review. And a presentation can be planned around a good movie or sound slide.

But which ever way visual aids are employed, the secret of using them successfully is integrating them into the overall safety education program. Visual aids should be used on a planned basis so that full value can be made of them. Planning is important too, because the too frequent use of the same visual aid can become monotonous and only by planned variation can you successfully keep interest.

Tailoring the Program

When planning the use of a visual aid the speaker should be sure that it is tailored exactly for his use in this particular situation. The aid should be tailored to:

The audience—Is it composed of specialists? Supervision? Mixed backgrounds or jobs? Different educational levels?

The subject—Does the aid fit the subject and the tone of the message?

The point—Does it do the best job of illustrating the point to be emphasized?

The time—Is there enough time to use this visual aid?

The surroundings—Is the aid too big or too small for the room? Can everyone see it? How is the lighting? How is the ventilation? Are there the needed electrical outlets?

The manpower—Is there someone in the organization who can draw or do lettering? Is there someone available to run the slide or movie projector when necessary?

The term, "simplicity" should guide the safety man when he prepares locally-made visual aids. Models should be as simple as possible and should be large enough to be seen by the audience. Remember simplicity, too, when making flip charts or drawings. Don't have too much on the same sheet. Only key words or subject headings are usually needed.

Some sort of a filing system should be used for the visual aids. "Musts" are the catalogs on films, sound slides and other material by the National Safety Council and firms or governmental bureaus who have aids for sale or rent. Aids once used should also be filed so that they can be used as part of other presentations when the need arises.

One shouldn't expect a visual aid to do the entire job, however, nor should an aid such as a movie or film slide be used alone. It's also poor business and an obvious lack of planning to use a film or sound slide merely as a time filler.

Safety personnel would be wise not to put the finishing touches on a meeting or program script before asking themselves first: "Can I use a visual aid to better get my point across?"

M. F. BIANCARDI is Manager, Safety Services, Allis-Chalmers Manufacturing Company, Milwaukee, and Chairman, Visual Aids Committee, Industrial Conference, National Safety Council.

Planning Ahead in Safety Training

By

EARLE S. HANNAFORD, Ph.D.

Three types of training services are provided by the National Safety Council. One or more of them may be just what your looking for



ALADDIN without his lamp would be a washout, and safety without safety training would be impossible. For people—people trained in the safe way—are the heart of the safety movement.

Today's changing times and conditions have brought new problems and new demands and new things in safety training are needed to meet them. Thus planning your safety training is a must. Planning ahead is essential to anticipating new problems as well as keeping the old ones under control.

And that's where a knowledge of what your National Safety Council is ready to supply in training services, courses and materials is important to you and your planning. In some way a preview of what's in the making for 1958 release may be even more important, so let's take a look at both.

There are three types of safety training services that the Council provides:

I. A consulting service which advises on how to meet your training needs.

No matter what your business or what your problems in safety training may be, this fund of training knowledge and methods, text materials, training aids, etc., is sure to have something in it for you.

There are literally hundreds of things which can be integrated into your own training or used to supplement it—motion pictures, specialized safety information in the form of data sheets, safety releases, instruction cards, flipcharts. If you don't know what it is or can't name it, the Council will.

EARLE S. HANNAFORD is Safety Engineer, Long Lines Department, American Telephone & Telegraph Company, New York City, and Chairman, Industrial Safety Training Committee, Industrial Conference, National Safety Council.

II. The Safety Training Institute's courses for safety supervisors and safety management provide professional skills and know-how.

These are:

1. Training Course in Fundamentals of Industrial Safety for New or Experienced Safety Supervisors:

Five-day course at Council Headquarters in Chicago.

2. Course in Safety Management Techniques for Administrators of Safety Supervisors Desiring Advanced Training:

Five-day course.

3. Field Course for New or Experienced Safety Supervisors in Fundamentals of Industrial Safety:

Five-day course conducted locally under sponsorship of local Safety Council and American Society of Safety Engineers where and when there is sufficient demand for it.

III. Continuing Development of Training Courses, Text Materials and Audio-Visual Aids to Meet New as Well as Old Safety Problems.

New Courses Planned for Release in 1958:

1. Radiation Safety for Safety Supervisors:

Five-day course at Council Headquarters.

2. Industrial Hygiene for Safety Supervisors:

Five-day course at Council Headquarters.

Courses and Materials Under Consideration and Development:

Correspondence course for supervisors (foremen and first line supervisors). This course will be based upon the "Supervisors's Safety Manual." To be offered to member companies for their supervisors.

Safety Training of New Employees:

A series of training materials and aids for use in your own program.



CONGRESS CAMERA

45th Congress Panorama

HOW do we arouse the nation to Back the Attack on Accidents?

Two keynoting speakers at the 45th National Safety Congress—Council President Ned H. Dearborn and Illinois Governor William G. Stratton—stressed the need for using all available tech-

niques to sell safety to the American public.

Speaking at the Annual Council Meeting, Dearborn asked, "Why don't the American people react to the terrible toll of accidents?"

"The facts have been told over and over again. But Americans just don't react as they do to

other worthy causes. You and I have failed to reach their hearts and minds."

Dearborn then called for additional research to study the problems and to make recommendations on how to prevent accidents.

Speaking at the Annual Banquet, Governor Stratton said we

THEY arrive singly . . .

BUT SOON gang up at the registration desk.



must divert to our use the skill and techniques of modern marketing to sell safety.

"Like the hucksters," he said, "to be successful we must sell safety much the same way they sell soap, toothpaste and automobiles. We are competing for the attention of the American public in a bush world."

Stratton said that advertising experts may hold the answer to further reductions in the nation's traffic toll.

On hand to greet more than 2,000 safety men at the Banquet was Chicago's Mayor Daley, who told of the city's traffic safety program which has made the Windy City the nation's second safest.

A special feature of the Banquet was the presentation of the first annual Paul Gray Hoffman Award. The Award went to Dr. Herbert J. Stack, former head of New York University's Center to Safety, for his "outstanding professional services to highway safety."

In presenting the Award to Dr. Stack, Paul Hoffman, former board chairman of the Studebaker-Packard Corp., referred to the educator as "a pillar of strength in the organized safety movement of America for a quarter of a century."

"More than 11,000 persons trained under his direction at the Center are now serving as leaders and teachers in colleges and universities, in elementary and secondary education, in commercial

AT THE BANQUET



ILLINOIS GOVERNOR STRATTON (left) and Chicago's Mayor Daley (right) listen to famed Schmitt Brothers Barbershop Quartet.



DR. HERBERT J. STACK (right) receives first annual Paul Gray Hoffman Award and congratulations from the donor, Paul Hoffman.

VISITORS FROM ABROAD



GEN. B. K. YOUNG (right) head of Britain's RoSPA, chats with Dr. Walter Linden, German traffic expert.



THREE SAFETY MEN from Uruguay, Italy and Chile carry on an animated conversation between sessions.

CAUGHT IN THE ACT



AT ANNUAL MEETING, General Young congratulates Explorer Scout Warren Meland following his talk. Council President Dearborn beams approval.



J. REDELBERGER, Brown-Forman safety director, rises to a point of order during a lively discussion at the Food Section's executive committee meeting.



COL. WILLIAM D. JACKSON, chief of Army research and development, discusses the safe uses of atomic energy with three Future Farmers of America.

and industrial organizations devoted to safety, in commercial fleets, in governmental agencies, national, state and local safety groups and private safety organizations," he said.

Off-the-Job Accidents

Many sessions at the 1957 Congress were devoted to "the big two-thirds"—those accidents that occur away from the plant. Every day more and more leaders in business and industry are discovering that off-the-job accidents cost time and money just as do those that happen on the job.

Two American Society of Safety Engineers sponsored subject sessions—"Are traffic accidents crippling your industrial safety program?" and "Off-the-job, the big two-thirds"—were devoted to the off-the-job safety problem.

Early Morning Sessions

One of the foreign visitors at the Congress was greatly impressed by the number of safety men that were on hand for the early morning sessions.

"Imagine," he said, "literally thousands of conventioners forgoing breakfast to hear a man talk!" Yes, that's exactly what happened. For four days in a row, at 8:15 in the morning, there was standing room only in the Grand Ballroom of the Hilton Hotel.

From Tuesday through Friday, Dr. J. L. Rosenstein of Marquette University's Management Center, spoke to thousands of safety men giving them ideas that would help them with the toughest problem in safety—the human problem.

Carol Lane Award

The highlight of the Congress, so far as the women were concerned, was the Carol Lane Award luncheon. The Award, named for the women's travel director of Shell Oil Company, is given to individual women and women's organizations in recognition of outstanding contribution to safety.

This year the top honors went to Mrs. Lewis Edmundson, Wal-senburg, Colorado, and the Urbana (Ohio) Business and Professional Women's Club. Mrs.

SOME MEETINGS JUST HAPPENED



AFTER AN INDUSTRIAL SESSION, two small groups linger on to hash over ideas.



SALESMAN and safety men huddle at Exposition.



THE SESSION is over, but the discussion goes on.

Edmundson was cited for her work in organizing a statewide safety program. The Urbana Club was honored for its work in organizing the Champaign County Traffic Safety Committee.

The stepped-up campaign to interest church leaders in accident prevention was reflected in the increasing number of clergymen from various faiths who spoke at many sessions.

The Rev. Cameron P. Hall, of the National Council of Churches of Christ, speaking at the labor sessions, said that accidents "rob man of his God-given life, or his God-given right to full growth as a person. Thou shalt not kill means that we are not to kill an-

other's chances for development because he has been made a cripple or invalid through an accident. Thus safety is a moral responsibility because an accident deprives society of its greatest economic asset—the productive worker."

At the railroad sessions, Rt. Rev. Gerald F. Burrill, Bishop of the Episcopal Diocese of Chicago, stressed religious aspect of accident prevention.

Rev. Robert C. Hartnett, S.J., dean, College of Arts and Sciences, Loyola University, spoke on the ethics of safe construction. Other clergymen gave invocations at the Annual Meeting, the Banquet and at a number of the industrial section meetings.



45th CONGRESS is over. Safety men take home ideas—leave hotel workers to sweep up debris.

WHEN CORRECTIVE GOGGLES ARE NEEDED

By E. J. SCHOWALTER, M.D.

Planning a prescription goggle program? Here are suggestions about the man, the job requirements, and administration of the program

THE objective of a prescription safety goggle program is to facilitate the wearing of well-fitting, optically precise safety goggles with lenses and frames that have been selected to meet the job needs of all industrial workers exposed to eye hazards.

The accomplishment of this objective to the complete satisfaction of employees, management, and the optical profession is a problem with varying aspects in an individual plant, between various companies, and in various parts of the country.

Here are my own answers to some of the questions involved:

Eye hazard exposure. Eye accident data and job analyses by safety experts will determine

Dr. E. J. SCHOWALTER is Medical Director, Western Electric Company, Hawthorne Works, Chicago. This article is adapted from an address at the Vision in Industry session, 45th National Safety Congress, Chicago, October 24, 1957. It appeared originally in A.M.A. Archives of Industrial Health, September, 1957.

which workers are exposed to eye hazards in each work location.

Frame requirements. Prescription safety goggle frames should have the same advantages as do those for plano goggles—that is they should be strong enough to withstand shock and should be especially selected to protect the worker against the specific hazards of his job.

Frames must also be sufficiently rigid to achieve and maintain correct positioning of the lenses. Therefore, frames for round lenses, those with flexible bridges, and those whose temples will not maintain adjustment are not satisfactory for prescription goggles.

Management should select frames in accordance with these principles and should avoid pressure for frames chosen because of cosmetic reasons. However, it is not necessary to go out of the way to make safety frames cosmetically

unattractive. After all the requirements stated above have been met, selection of the most attractive frames will help promote the wearing of prescription goggles.

Lens requirements. Prescription goggle lenses must meet the same standards for safety as do plano lenses. The American Standards Association has issued specifications which must be met by all lenses in order for them to be "safety" lenses. Those meeting the specifications must be marked with the manufacturer's trademark so that each safety processed lens can be identified.

It is good practice to test safety lenses on a spot check basis to insure that they meet ASA standards.

Prescription or plano goggles? Workers needing safety goggles should use prescription lenses:



- If their unaided vision does not meet a predetermined standard. My own standard is as follows:

Snellen Equivalents

Far: Both 20/25
 Right 20/30
 Left 20/30
Jaeger (12-14 in.)
 Near: Both .50
 Right .75
 Left .75

- If they have eyestrain complaints with planos. It is worthwhile to check the plano lenses to be sure they meet ASA standards.
- If their jobs entail special visual demands which are not met without the help of prescription lenses.

The following information must be supplied to the refractionist:

1. The actual distance (measured) from the eyes to the visual surface of the job.
2. If more than one seeing distance is required, each should be measured and recorded.
3. Any job requiring out-of-the-ordinary visual positions should be carefully described and, if it is thought necessary, the refractionist should be requested to observe the job personally.

In addition to prescribing single vision lenses and regular bifocals, it is sometimes advisable to prescribe inverted bifocals, or trifocals with one segment above

and one below, or other combinations.

Who needs refraction? Workers who require prescription safety goggles and who do not have a satisfactory prescription in their personal glasses which provides for all visual requirements of the job should be refracted.

The refractionist. Who should do the refracting? The overlapping interests of optometrist, ophthalmologists, and opticians can create serious management public relations problems unless company policy in this area is carefully conceived and administered. From my viewpoint, refraction for prescription safety goggles should be done by either an ophthalmologist interested in refractions (most, but not all, are) or by an optometrist who:

1. In addition to being well trained in refraction techniques has had adequate training in recognizing the presence of eye disease. (This is not to be confused with ability to make diagnoses.)

2. Must work in collaboration with an ophthalmologist or a medical director, referring all cases of eye pathology to him.

Should the company employ the refractionist? Local circumstances will dictate the correct answer to this question. There are several alternatives:

- The employee can be sent to his own refractionist.

1. This *must* be done if the employee pays for his own refraction.

2. This practice results in the best public relations between management and the optical professions.

- The employee can be refracted by a company-employed refractionist.

1. In my opinion, this facilitates the best control over the prescription safety goggle program. It is the most convenient type of program to administer.

2. The "vision for the job" concept is easier to obtain.

3. Based upon my observations and inquiries, this procedure results in fewer unsatisfactory prescriptions, hence fewer lens replacements.

—To page 221

←
REFRACTION for prescription goggles should be done by an ophthalmologist or by an optometrist trained to recognize eye disease. He should know the visual requirements of the job.

PROPER FITTING of frames and a final check-up by the refractionist assure well-fitting goggles.





(Fiction)

The immediate problem is solved but another less tangible and more difficult remains—how to keep a good junior engineer from breaking down through worry and tension

CLOSE DECISION

By BILL ANDREWS

December 9, 1957

The three of us looked at each other. Two boys, one frightened, one scornful. One old pro safety man getting gray around the edges, worn by too many fears and too many avoidances of fear to let himself react too strongly either toward fear or confidence.

"You're just a worry-wart," said one boy.

"Somebody'll get killed," said the other.

And I, for the moment, say nothing, but try to think and balance the evidence.

This has happened before between me and the two young men I hired last summer as my assistant safety engineers.

The roles on three other occasions were the same. Dan Laster is almost by nature a worrier, an alarmist. Lee Arthur is equally by nature an optimist. And, though I've had no ulcers and no nervous breakdowns, the wrinkles around my eyes were not put there by any over-indulgence in serenity and optimism.

Actually, of the three previous cases of disagreement between the boys on such an issue, Lee has been certainly right twice and maybe right the other time. At any rate, I sided with him all three times, we took no defensive action, and the situations which

alarmed Dan did not produce accidents.

On the record, I'm prejudiced in favor of Lee's judgment. This prejudice is heightened by a real concern about Dan's tendency to worry, to wear himself down emotionally, physically, and mentally. Safety is a rough field for a man with a tendency to magnify dangers. As bad, perhaps, as a medical career would be for a hypochondriac.

But if Dan has to learn to calm down, to accept situations and evaluate them coolly, then Lee also has to learn what I am not sure he has learned: to know the real gut fear that sends adrenalin pumping into the system to spark quick and effective reaction to actually dangerous situations.

The issue we're talking about is in the new metal cabinet plant in Block 23. They spray those cabinet parts with a lacquer that's highly flammable. A proper concentration of lacquer vapor in the atmosphere would, if ignited, send the roof of that plant into an orbit rivaling Sputnik's. At any rate, it would take the roof off, smash the interior of the plant, and perhaps kill between 10 and 75 people.

All this is known to both boys, to me, and to plant management and supervision. Elaborate and expensive precautions have been

taken, in the form of spray booths, ventilation, and so on. On paper, the precautions are soundly designed and adequate to deal with the problem with a considerable margin to spare.

I've recently divided the boys' work on an area basis, and Block 23 is in Dan's territory. Being conscientious and a worrier, Dan has done a lot of looking into the situation. He did considerable research at Tech on ventilation, and he's skeptical of the rated performance figures given on ventilation systems.

So, on his own, he's been checking air flow at the outlets of exhaust air that comes from the spray booths. By calculations rather more involved and abstruse than I learned a generation ago, he has come to the conclusion that too little air is actually coming out those vents.

Lee is a good instrument man and a good chemist. So Dan called him in to do a check inside the plant. Lee went over the place with his testing equipment, with his handbooks of permissible concentrations. He even did a little experimenting in a small lab I've let him set up. His conclusions are entirely negative. There isn't, he is sure, any sign of dangerous concentration of vapor near the booths.

Dan doesn't dispute this data. But he feels that the original design of the system was sound. He sees in his low exhaust figures proof of an actual drop in air flow, which convinces him that somewhere in the system a process of clogging or blocking is taking place, and that this, unless corrected, may at any time and without warning reach a point which will fail to remove lacquer fast enough and produce an explosive concentration.

To this, Lee responds that we didn't make any tests of air flow ourselves until this week. The contractors and plant authorities did, but Dan's methods are radically different from those used, so we have no evidence of an actual drop in air flow. He also points out that the designed system has no obvious points of clogging, such as filters or fine screens. Finally, he believes that even if Dan is right, and air flow is diminishing, it must be doing so very gradually and we can ride with the situation safely, only needing to have Dan continue checking air flow at frequent intervals. If a really dangerous trend in air flow develops, then we can act.

To this Dan replies, "Look, Lee just said that if clogging is occurring, we don't know where it is. So we have absolutely no basis for assuming a nice, gradual drop in air flow. There are lots of conditions that can produce a slow drop for a time, then suddenly almost complete stoppage. Until we know what is causing it, we can't assume we've got any time at all in which to act. I say, we've got to shut that plant down, go into that system, and find out what's wrong."

So it's in my lap. There is, or there is not, danger. If I ignore it, after Dan's warning, and men are killed, do I have a career left—or the right to call myself a safety man? Or do I act on Dan's advice, ride roughshod over the plant management, shut down, spend money, all on a worrier's word, which is contradicted by objective scientific data supplied by a man on my own staff? Do I do that, in the face of the considerable probability that investigation would prove negative?

Gap-osis

DID YOU EVER wonder why you didn't get through to the kids or the spouse? Ever wonder why someone didn't get through to you?

Experts say that people speak at some 100 words per minute—but minds can absorb up to 600 words per minute. This means there is a lot of slack in our brains, whether listening to someone or doing something.

For example, who concentrates 100 per cent on driving while behind the wheel? Who concentrates 100 per cent on what someone is saying to them? Most things we do don't tax the full capabilities of our brains—and we get into trouble from the stray thoughts, impulses and ideas which wander into the gaps.

When we do something for the first time we probably give it most of our attention. But even the most difficult tasks become routine after a while—then we have more free brain-time to get into trouble.

Maybe this is one reason for increased juvenile delinquency. With all the vitamins and goodies we feed the kids, their brains are getting so sharp the gap between our transmitting and their receiving is ever widening. With the general increase in literacy, the whole population may be getting sharper—so we need to try new and better ways to keep the receiving mind from wandering away.

Don't ever forget how sharp your brain is. Keep irrelevant ideas or impulses from creeping in and getting you killed.

—ROBERT D. GIDEL

So we look at each other—the worrier sweating, twisting his hands together, groping for new and more moving arguments to convince me. And the optimist is leaning back in his chair, placid, self-assured. What would happen to that assurance if, suddenly, we felt that deadly slap against our feet, followed in split seconds by the full-throated roar of explosion?

And I, faking a calm and a knowingness I do not feel, balancing complex factors of chemistry and economics, flaming death and flaming tempers, conceal the conflict and say, "Okay, I'll handle it. Get on with your work. I'm going over to the plant."

"You're going to shut it down?" Dan almost shouts.

"I'll see," I reply—meaning that I hope that I will come to see whatever unknown thing there is for me to see which their eyes may have missed.

I can walk slowly. I have no ulcers, and my blood pressure's pretty even. But I don't say it's easy to walk slowly when you do not know if the greater danger is from haste or slowness.

It's strange that, once in the

plant, the fear dies. If there is physical danger now, I share it. If there is disaster, I live or die attacking it, and I would take what came facing no scorn from fellow craftsman or myself.

It all checks. The spray booths are busy and yet I stand beside the painters without discomfort. I could, I'm pretty sure, light a cigarette there without danger.

I go outside and toss dry grass up at the exhaust vents, and I watch them fly—a lot too sluggishly. I get a ladder and put both hands just beyond the louver. This is no scientific test with narrow ranges of error—but it is enough for old hands used to checking air systems to sense a lower flow than I know there should be.

Then the God who protects the guy who makes even a blundering try at doing right came through. Carelessly, I slipped a finger under one leaf of the hinged louver and lifted. It came up—but there was a sticky resistance to my lifting.

I was down off that ladder by methods I never teach—it was a
—To page 252



FIGURE 1 Winch, pulley, and cable arrangement used to raise and lower droppable section (next to building) supported on bracket above doors.



FIGURE 2 Close-up of the cable-pulley arrangement for the droppable section of rail.

HOIST INSPECTION SIMPLIFIED

New method reduces hazard, time and cost

INSPECTION and maintenance of heavy monorail hoist equipment "in place" is difficult and can be dangerous. To remove such a hoist by conventional methods, or to erect special scaffolding, is expensive.

P.F. Hurt, safety engineer for the U.S. Navy Underwater Sound Research Laboratory, reports a technique developed by his organization which makes hoist inspection and maintenance relatively easy.

Basically, the method shown on these pages requires a section

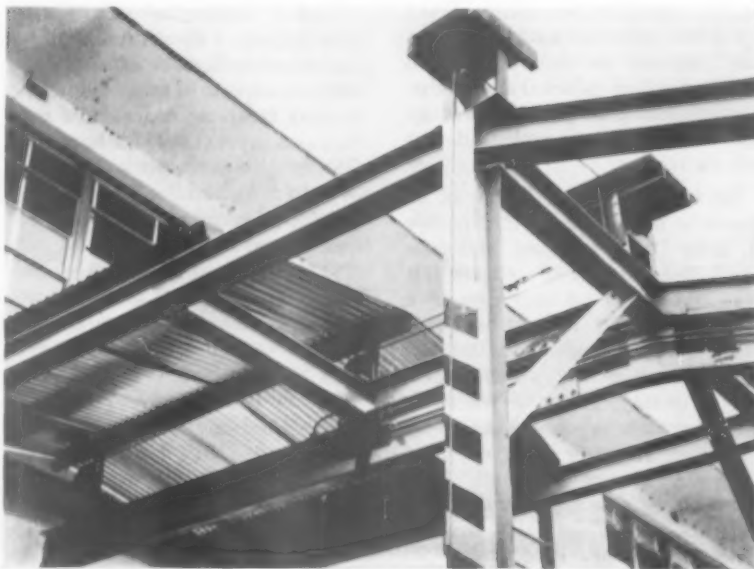


FIGURE 3 Junction point between the outside monorail system and the system inside the building.

of the monorail which can be lowered to meet a second section of monorail, or portable "T" beam. In operation, the hoist to be serviced is run onto the droppable section and lowered to the level of the portable section. The hoist is then transferred and carried to the maintenance shop.

The droppable section is returned to its normal position until the hoist is ready to be put back into service.

FIGURE 4 Droppable section has been disconnected and lowered and is being joined to the inside monorail system. "A" frame (see Figure 7) would be used at this point if no inside monorail system is available.



FIGURE 5 Once the two monorail systems have been connected, the hoist moves easily onto the inside system.

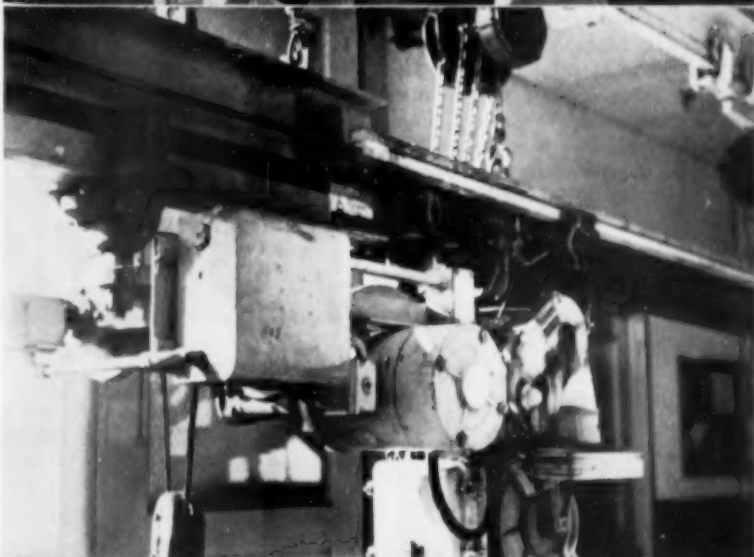


FIGURE 6 Inside the building, the hoist is carried to maintenance shop and lowered to the work bench where tools, equipment, and safer working conditions are available.

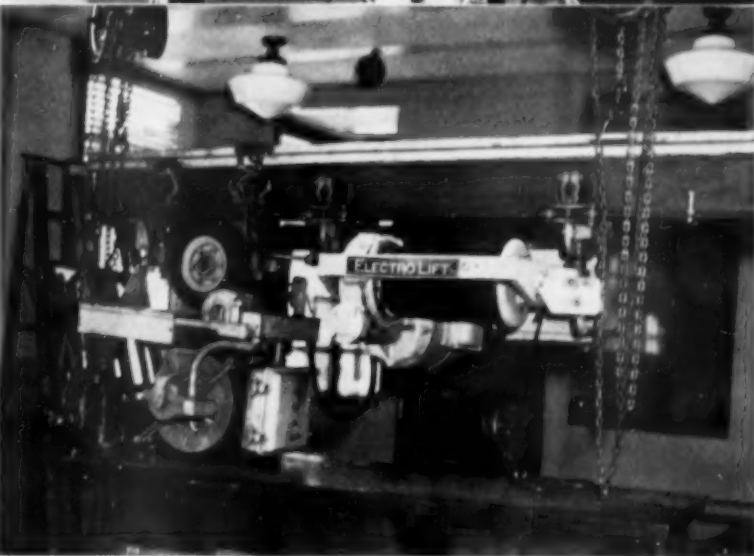
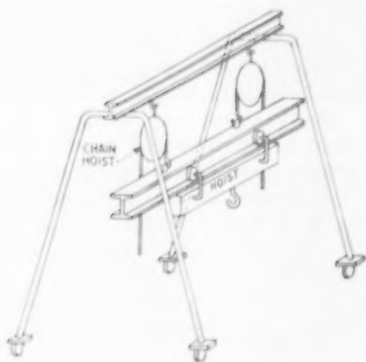


FIGURE 7 "A" frame from which a portable section of "T" beam is hung for shops without an inside monorail system.



IDEAS THAT WORKED

Devices and Ideas to Help Your Safety Program

By Arthur S. Kelly, Industrial Department, NSC

Goggle Mix-Up

In the October issue we used an idea, "Goggles Cover Grinder Switch," which caused a minor stir. Laws in some states forbid such personal equipment being used by more than one person unless sterilized between times.

Actually, M. L. Meng, who submitted the idea, used the pedestal grinder because most people are familiar with it; the main idea was to apply to machine tools operated by the same man every day — millers, lathes, surface grinders, etc. Further, Mr. Meng had written a second letter with the correct data, but that letter never arrived.

We regret exposing Mr. Meng to "discussions" on the subject. For equipment used by more than one person, Mr. Meng suggests instead of safety glasses a heavy card, preferably of plastic, installed over the switch, bearing a warning (on both sides) such as, "Wear Your Safety Glasses—Please replace card; it may save the eye of your best friend." We like this idea as much as the original.

PRIZES FOR IDEAS

For the best idea printed each month, we will award \$15 worth of merchandise of the winner's choice from the NSC Incentive Catalog, or a personalized copy of the Accident Prevention Manual. Prizes totaling \$25 will go every six months to the best of the monthly winners.

Send a brief description with a photo or drawing to "Ideas That Worked," National Safety Council, 425 N. Michigan Ave., Chicago 11. Any idea, gadget, or home-grown invention that is preventing accidents in your plant is eligible.



Rope Tester

Wolverine Tube, Division of Calumet & Hecla, Inc., Detroit, Mich., uses nearly 5,000 rope slings to handle unit loads of copper and brass tubes. To detect and eliminate weakened slings before they fail under load, the rope tester shown here was developed as a part of the plant's overall safety program.

The framework of the tester is an 18-ft. H-beam supported by braced angle-iron legs welded to the beam's flanges. The legs are supported on caster-mounted links of U-channel. The air cylinder which provides the force for testing the slings has an 8-in. inside diameter and a 15-in. stroke. The cylinder is bolted to the web of the H-channel, and a hook is mounted on the cylinder plunger. The hook runs in a groove so that it does not twist as the rope is put under tensile load. A double hook, which can serve

for both rope links, is mounted at the opposite end of the H-beam.

Air at 80 psi. is stepped down to maintain a pressure of 38-40 psi. to the cylinder. A moisture trap and lubricator also are installed in the compressor airline.

In testing the sling, loops are fitted over the hooks and the operator opens the air valve to the cylinder, applying a 2,000-lb. tensile load on the sling. The load is maintained until rope creepage stops. A sling in sanitary condition will "give" a certain degree and then hold steady. A faulty sling will continue to creep until breakage occurs.

Every rope sling used in the plant is tested once a month. To keep a quantitative record of the tests, a counter, linked to the air valve is mounted on the machine so that actuating the valve automatically actuates the counter.

Permission to publish given by Robert C. McCoy, Wolverine Tube, Detroit, Mich.

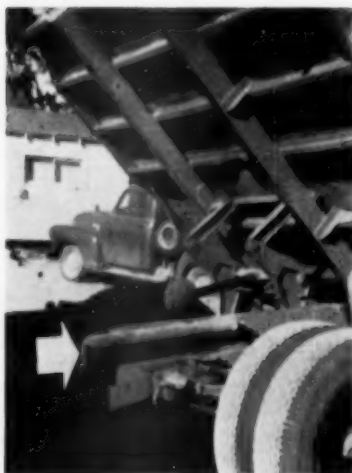
November's Winner

Winner for November was Jim Bradstreet, Machine Department, Eastman Kodak Co., Rochester, N. Y., for his eye protection tickets idea.

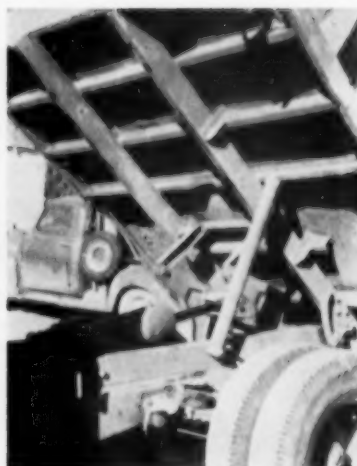
Block Holds Dump Box on Truck

At one of the plants of the Ready-Mix Concrete Company a simple but very effective block for the dump box was developed.

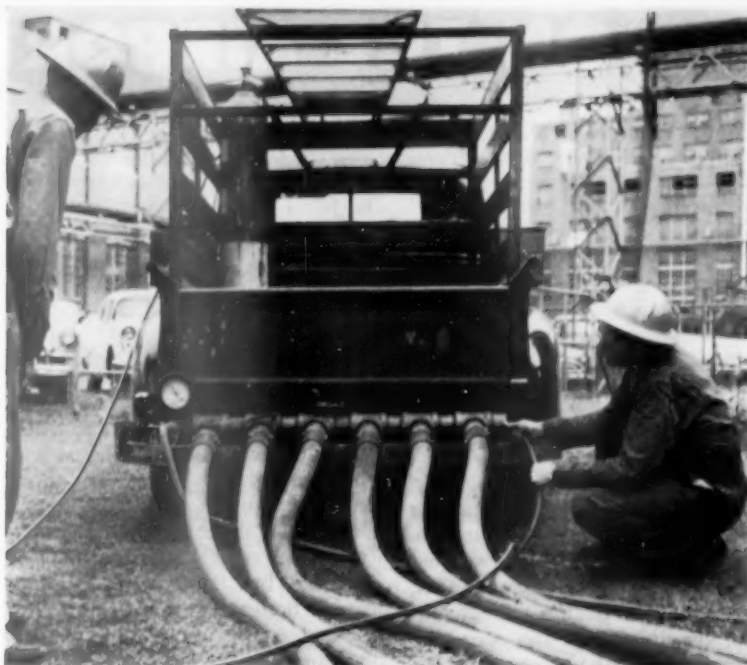
Note in the left picture that the block (arrow) is secured to the frame of the truck by a bolt and when not in use lies parallel with the frame. It's a simple matter to



flip the block over into position as shown in the right illustration. Submitted by Robert Neu-



brand, Accident Prevention Department, Employers Mutual Casualty Company, Wichita, Kans.



Fire Hose Tester

The people at Tennessee Eastman Company, Kingsport, Tenn., got tired of using a hand pump to test 2½-in. fire hose and devised an idea that worked.

A pick-up truck was converted into a mobile hose testing unit. A cylinder of nitrogen gas is shown

secured in the truck and is equipped with a reducing valve and a hose, on the end of which is a fitting such as used in inflating tires.

A header is installed on the rear of the truck, designed to handle six 50-ft. sections of fire hose. The other end of the hose



terminates in a cap equipped with a petcock.

A small hose to supply water to the header and a pressure gauge are connected to the left end of the header. On the right is a valve connection to permit applying the nitrogen gas.

The header and hose are filled with water, taking special care to vent all the air. The photo shows a test in progress. Submitted by Guy Isenberg, director of plant protection.



JET NOISE ON THE AIRPORT

GROUND RUN-UP MUFFLERS of the size used for J57 engines shown attached to F84F Air Force planes. (Industrial Acoustics Co. photo)

By **HOWARD C. HARDY** and **JAMES E. ANCELL**

**Noise is one of the big problems of the jet age
and solutions aren't going to be cheap or easy**

IT WOULD be presumptuous folly to think that all the problems of the aircraft industry could be completely predicted, especially in such a complex phenomenon as noise. However, we can attempt to extrapolate from the experience we have in military operations and present airport activity.

HOWARD C. HARDY and JAMES E. ANCELL are with Howard C. Hardy and Associates, Consultants in Acoustics, Chicago. This article is adapted from an address before the Air Transport Section's session at the 45th National Safety Congress, Chicago, October 23, 1957.

When we do so, we conclude that there is reason for concern. Not only will we be worried about the exhaust noise of the jet, severe as it is during takeoff, but a larger number of the operating personnel will be exposed to the whine from the front end of the engines. This whine will be very similar to that which comes from the turboprop engines now in operation.

This noise is due to the rotation of the turbine blades and is similar to a propeller or fan noise except that the rotation is at very high speed and there is a large

number of blades. This same condition exists in either jet or turboprop planes with the exception that future turboprop planes will be considerably larger than those we have now.

We can make some reasonable estimates of what this noise will be like, but first, let us examine some figures on what might be considered acceptable human environment.

Figure 1 presents some such data. The acoustical engineer measures the sound in decibels, referred to a standard reference level. These figures are presented in the vertical axis of this graph. On the other axis is a method of presenting the different frequencies of the sounds. This is necessary because the human hearing

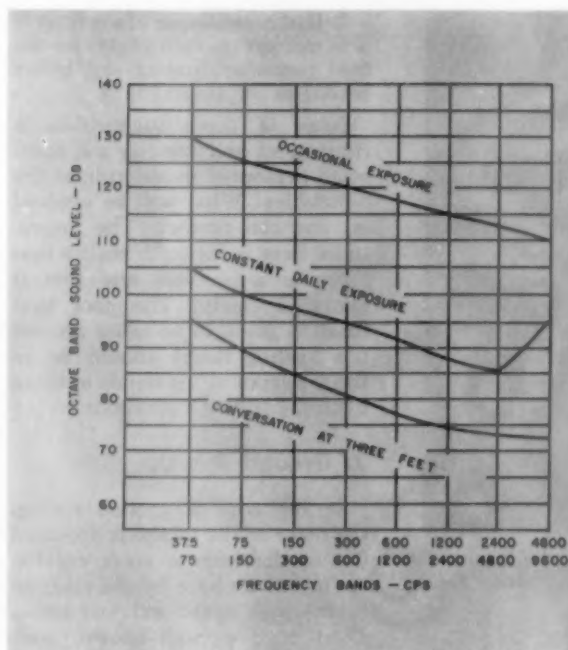


FIGURE 1. Curves giving graphs of acceptable human environments. Vertical axis is given in decibels; horizontal axis shows frequency in octave bands.

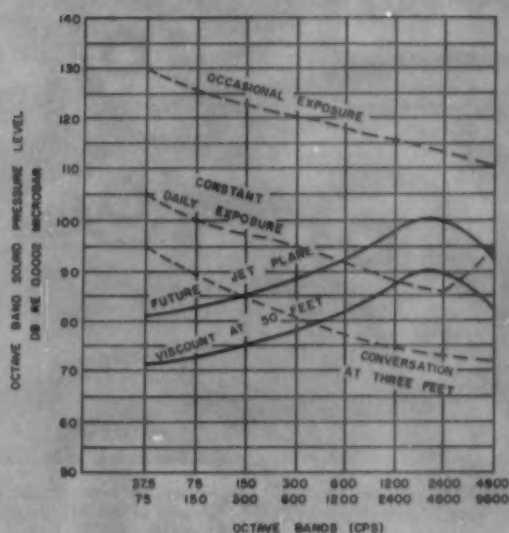


FIGURE 2. Taxiing noise from the Viscount compared with a future turbojet plane. In the background for comparison are environment curves of Figure 1.

mechanism responds quite differently to various frequency bands.

Our frequency scale is divided into sections each an octave wide, running from the first band of 37.5=75 cps. up to the last band which has frequencies of 4800=9600 cps. The low frequencies sound like hums and thuds, the middle frequencies like rattles and clangs, and the high frequencies like hisses and clicks.

The middle curve specifies how much noise the average person can be inflicted with for six to eight hours a day exposure, day after day, for many years before suffering a hearing loss. Constant exposure, of course, does not exist on an airfield where the noise is intermittent and the worker has a chance to get an occasional rest from the acoustic fatigue. Under such conditions, the intensity of the noise environment can be increased many times without damage.

We recommend, however, that the exposure never exceed the figure given in the upper curve because such exposure would be painful and might cause hearing damage, if there were many ex-

posures over a period of years.

If hearing loss prevention is the main criterion, the amount of allowed exposure for a worker will depend almost entirely on how often and for how long he is in the noise.

However, there are other reasons why noise should not be very intense. Speech communication or conversation will be practically impossible and the normal use of the ear as a means of receiving warnings or danger signals may also be seriously inhibited. At levels at which conversations can be conducted there is very little chance of hearing loss even after years of exposure. The noise should not exceed that given in the lower curve if one wishes to communicate by voice at a distance of about 3 ft.

These curves then provide a frame of reference to describe the potential environment which will exist in commercial aviation.

There are three environments which should be of concern to operating personnel:

1. The idling and taxiing activities around the airport terminal or near hangars.

2. Ground run-up and take-off of jet engine aircraft which would be expected to be at some distance from the terminals and hangars.

3. Testing of jet engines alone at overhaul bases.

1. Idling and Taxiing

The idling and taxiing environments will influence by far the most personnel. These environments will be somewhat similar for both turboprop and turbojet airplanes. The severity of the problem can be imagined if we consider the conditions which would exist at Chicago's Midway Airport, for instance, if two-thirds of all planes had a whine which was 10 db. higher than that of the Viscount, a plane which is now operated by only two air lines at this airport. This is the operating condition predicted by the air lines by 1963.

The noise during idling and taxiing, the compressor whine, is emitted from the intake and is beamed to the front. The octave band spectrum of this noise is given in Figure 2 for a Viscount plane at a distance of 50 ft. The idling noise of the future jet en-



EAR MUFFS give up to 30 db. protection in high frequencies. Combination of helmet, muffs and stopples give as much as 50 db. attenuation. (Mine Safety Appliances Co. photo)

engine is estimated to be that given in the upper curve. These data are only approximate and depend considerably on the rpm. of the engine.

It can be seen that these curves extend considerably into the undesirable regions of auditory perception and therefore become quite annoying to operating personnel. As a result they may, as has already been the case, become of concern to management and to labor unions.

This noise will also be quite unacceptable to the public. Unfavorable public reaction to ground operations is not expected to be very great from the neighboring residences because these high frequency sounds are rapidly attenuated with distance. We are thinking instead of the public who are boarding adjoining planes and are in waiting docks, waiting platforms, or other parts of the airport facilities.

The magnitude of the noise at the major airports due to a multitude of taxiing and idling activities will undoubtedly bring about an adverse reaction of the public. Most anything which is done to give a more satisfactory airport acoustic environment for the public will undoubtedly be of help in getting a better environment for the working personnel.

For personnel not protected by building structures only four solutions are possible:

1. Hearing protection, which, of course, is unlikely to be used by the passenger or visitor.
2. Operating at very low rpm.
3. Towing the airplane into the ramp.

4. Hasty installation of small portable mufflers on each engine on the field just after landing and before taxiing to the loading area.

None of these suggestions is convenient and we can see operating personnel shuddering at the difficulties. What will be evolved no one can predict. The importance here is for us to realize that there is a problem and that it demands study. The fact that there is going to be noise around the loading docks should be in the forefront of the minds of those planning future operations.

2. Ground Run-Up

In the case of ground run-up the noise of the intake is drowned out in the intense noise created in the atmosphere by the ejection of the high speed exhaust gases. This is the well-known roar which we hear from the jet engines on take-offs. This noise environment during run-up is more important than take-off because it will last longer with usually more personnel at a closer distance.

The intense noise created will be of importance not only to operating personnel, but in most com-

—To page 216

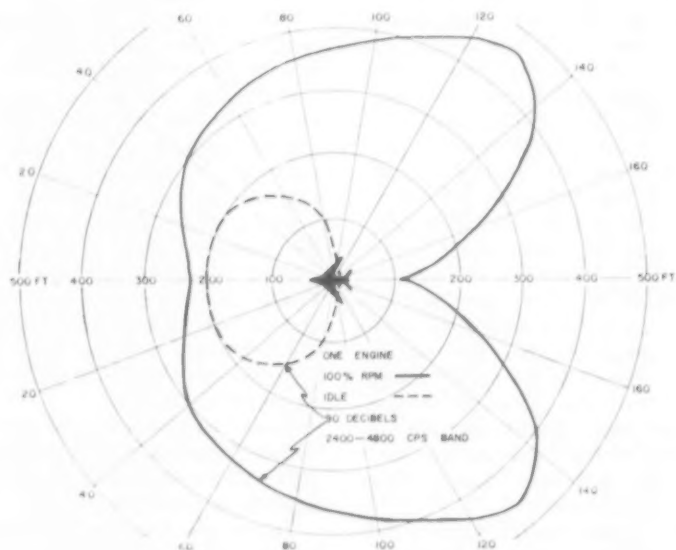


FIGURE 3. Noise pattern in the 2400-4800 cps. frequency band (of most importance for hearing damage risk) of a single jet engine at idle and at 100 per cent rpm. Contours given are for 90 db. Within these areas, hearing protection is recommended.



Which one speaks 7 languages?

Fellow in the pith helmet? A big game hunter. Knows his stuff but speaks only his native English.

Myna bird? A great disappointment; just screeches.

Smartly attired gal? An interpreter. Excellent, of course, but only in the 4 languages of her choice.

And the movie projector? A real gem, complete with magnetic-optical features. Handles any number of languages you may want.

How? Start with 16mm film, sound or silent. Have a processing lab add a magnetic stripe. (Costs about 2½¢ per foot, and well worth it!)

Then, using the sound-recording device *built into* the projector, put your narration right *onto* the film.

Erase at will; make changes; add special sound effects as desired. Re-do narration to fit changing audience needs. (It takes only a little more time than the running time for the film.) Use and re-use the stripe as often as you wish.

What else? Effective showings for every 16mm film, sound or silent. You have sparkling pictures, filled with attention-keeping detail. Sound is excellent. And this projector is always ready for use, because it's *lubricated for life* at the factory.

This versatile communications tool is called the Kodascope Pageant Magnetic-Optical 16mm Sound Projector. Businessmen use it for public relations, sales promotion, training, research reports, stockholder presentations, and the like. Those with school and church responsibilities find it equally valuable.

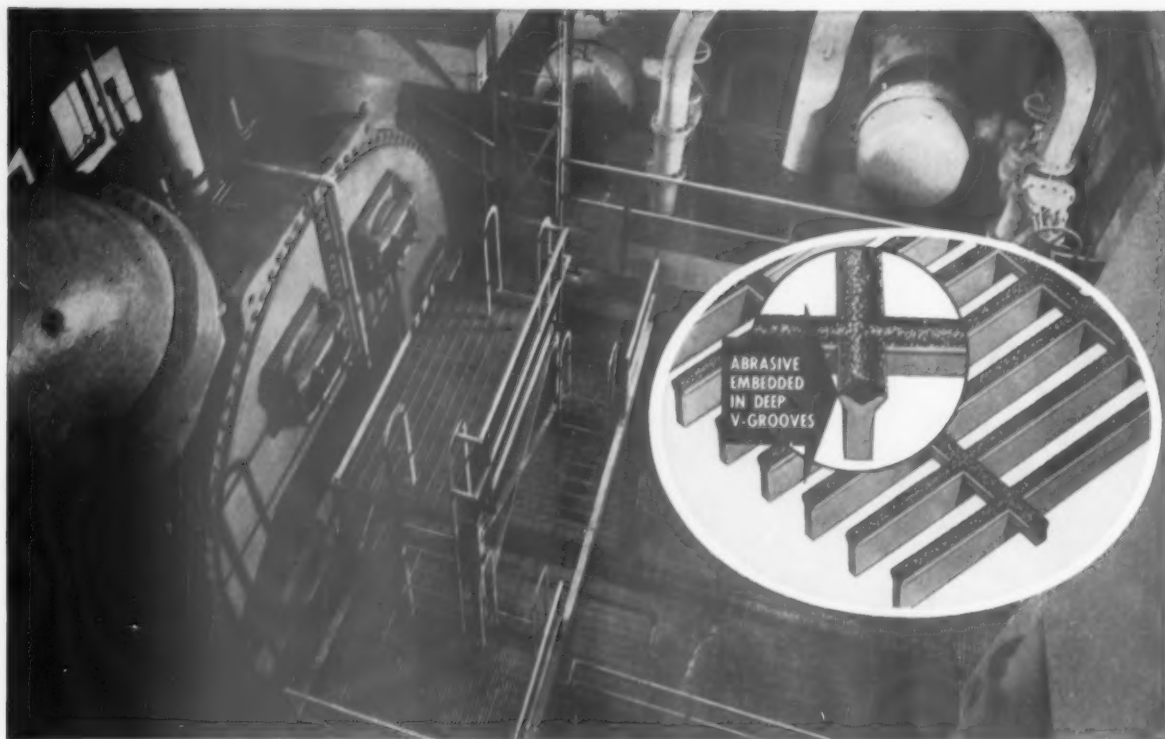
Demonstration? At your convenience by a Kodak Audio-Visual Dealer. Or send for the informative brochure, V3-44.

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If you have floors or stairs which become oily, greasy, wet, or slick from any cause, Relgrit can provide safe footing at very low cost. Write on your letterhead for free sample and literature, or ask for our representative to call. It will pay you to investigate this remarkable new grating.

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Steel, Stainless and Aluminum Grating • Steel Mill Equipment

Circle Item No. 12—Reader Service Card

IODINE

Published by National Safety Council
425 North Michigan Avenue, Chicago 11

Properties

1. Iodine is a nonmetallic element belonging to the halogen group, and in its normal form consists of bluish-black plates or granules having a metallic luster. Some of its more important properties are:

| | |
|------------------|-----------------|
| Molecular weight | 253.84 |
| Melting point | (236.3F) 113.5C |
| Boiling point | (363.7F) 184.3C |
| Specific gravity | 4.93 |

2. Iodine sublimates readily, giving off a violet-colored vapor that will color the skin on contact. Its vapor pressure at 25C (77F) is 0.309 mm Hg, and its vapor density is 8.7 times heavier than air. It is slightly soluble in water (0.02 parts of iodine in 100 parts of water), and it is soluble in alcohol, carbon disulfide, chloroform, ether, carbon tetrachloride, glycerol, and alkaline iodide solutions.

Uses

3. Iodine is an oxidizing agent, but its chemical activity is less than that of the other halogens. The stability of the resulting iodides is less than that of the other halogens.

4. Iodine and its compounds are used in medicine as germicides and antiseptics. It is used in the manufacture of aniline and phthalin dyes, organic compounds, iodides, and iodates. It is also used in leather manufacture,

This Data Sheet is one of a series published by the National Safety Council, reflecting experience from many sources. Not every acceptable procedure is necessarily included. Data Sheets should not be confused with American Standard Safety Codes, federal laws, insurance requirements, state laws, rules and regulations, or municipal ordinances.

paper testing, process engraving and lithography, analytical chemistry, and as a catalyst for the alkylation of primary amines.

Containers and Storage

5. Small amounts of iodine are supplied in bottles and jars. Larger amounts are shipped in 100-pound cases of two 50-pound jugs and in 100- and 200-pound kegs. Containers should be protected from exposure to direct sunlight and should be stored in a cool place. There is no shipping regulation which applies to these containers or amounts of iodine.

Hazards

6. Exposure to iodine vapors causes corrosion and irritation of mucous membranes, resulting in irritation of the eyes, rhinitis, and cough. Severe exposure may cause pulmonary edema, and prolonged exposure to lower concentrations may result in chronic rhinitis and pharyngitis and may lead to cachexia. Some persons may develop hypersensitivity to

iodine so that absorption of very small amounts may result in a reaction.

7. Symptoms of iodine poisoning following intake by mouth develop in the following order: severe irritation of the mouth and pharynx, gastric uneasiness, disagreeable and metallic taste, severe abdominal pain with violent vomiting and diarrhea, collapse, and irritation of the kidneys.

8. Iodine in both the solid and the vapor forms is corrosive to the skin, producing a mahogany color and dermatitis.

Handling

9. Iodine should not be handled with bare hands. In industrial processing and handling, iodine should not be allowed to come in contact with the hands or other parts of the skin. All work involving iodine should be done in a well-ventilated area, with the vapors controlled by a ventilating system which removes all odors of iodine from the work area.

10. Employees who handle iodine should wear goggles or face shields. Self-contained breathing apparatus should be available in the immediate area in the event of an emergency.

11. In case of spills, sodium thiosulfate or dry sodium carbonate should be used to neutralize the spilled iodine.

First Aid

12. Every individual suffering exposure to iodine in either the solid or the vapor state should be referred to a doctor for proper treatment.

13. Certain first-aid measures may be taken until a doctor arrives or until the employee can be moved to a hospital or dispensary. To minimize skin burns, the affected areas may be bathed with cotton or towels wetted with a saturated water solution of sodium thiosulfate ($\text{Na}_2\text{S}_2\text{O}_3$). Eye burns should be treated immediately by flushing with running water for at least 15 minutes.

14. A person suffering from inhalation of iodine vapors should be removed to clean air. If breathing has stopped, artificial respiration should be started at once and oxygen should be administered by someone qualified to operate oxygen equipment.

15. A person who has been exposed to iodine vapors should be treated for shock, kept quiet, not permitted to exercise, and referred as quickly as possible to a doctor, who should be informed as to the exposure.

16. In case of accidental ingestion of iodine, starch solution, milk, egg white, or gruel should be given by mouth.

Maximum Acceptable Concentration

17. The American Conference of Governmental Industrial Hygienists* has listed the maximum acceptable concentration for iodine vapors at 0.1 part of iodine vapor per million parts of air.

18. To determine the concentration of an iodine vapor in air, the air sample is dispersed by a fritted glass scrubber in an iodine-absorbing medium. The amount of absorbed iodine is then determined by standard volumetric procedures, using sodium thiosulfate and a starch-iodide indicator.

*"Threshold Limit Values for 1956," *AMA Archives of Industrial Health*, American Medical Association, August, 1956.

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ACKNOWLEDGMENT

This data sheet was prepared by the Executive Committee of the Chemical Section, National Safety Council. It has been extensively reviewed by members of the National Safety Council and representatives of chapters of the American Society of Safety Engineers. The data sheet has been approved for publication by the Publications Committee of the Industrial Conference of the National Safety Council.

Fire Protection for Pump Stations

WITH MORE and more pipe line operations utilizing unattended pump-relay stations, fire safety for these stations has become a primary consideration.

The accompanying diagram, prepared by Walter Kidde & Com-

pany, Inc., shows a typical pump station comprising a pump room and an electrical control room.

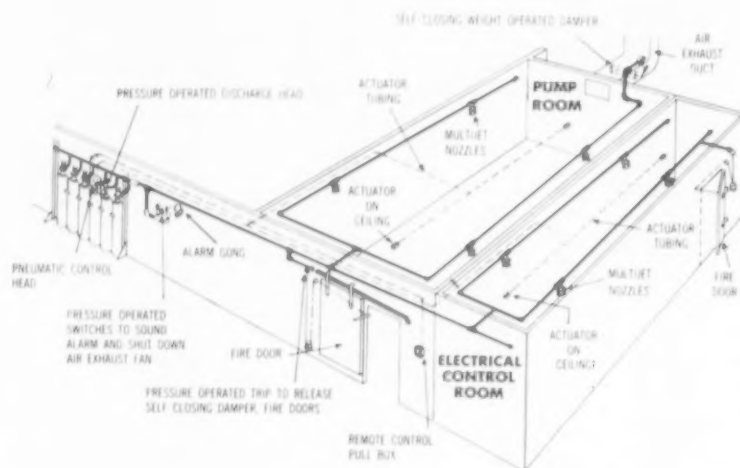
Should fire flash in either space, rate-of-temperature-rise fire detectors automatically actuate six 75-pound cylinders of carbon dioxide. The inert gas under its own pressure floods from its containers and passes through piping to the two spaces where it is discharged from Multijet nozzles. A sufficient volume of carbon dioxide is introduced to reduce oxygen to a degree insufficient to support combustion. The fire is smothered in seconds.

Built into the piping are pressure-operated switches and trips. They are actuated by the passage of carbon dioxide and cause doors to close, ventilation to be secured, and sound a local alarm ... all automatically. They can also shut down machinery or electrical equipment and sound alarms at distant points.

The pull box outside the station permits the system to be actuated manually.

Carbon dioxide is ideal for fire protection of pump stations. Being an inert gas it is a nonconductor of electricity, and as it eventually is absorbed into the atmosphere following discharge, it leaves no mess to be cleaned up.

Some pump station carbon dioxide systems employ electrical fixed temperature thermostats to actuate the carbon dioxide cylinders rather than the rate-of-temperature-rise detectors shown in the diagram.



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**New Welsh Cover Goggles And Eye Shields
Feature Unique, Soft, Light, Pliable Frames**



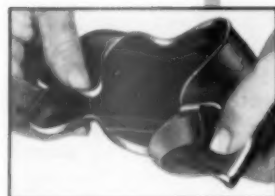
Patent Pending

STYLE 5050 — WELSH "SOFT-I" FOR WELDERS

Welders' Soft Side Cover Goggles—Soft, pliable frame adapts comfortably to facial contours. Deep cups fit easily over prescription goggles. CR 39 Plastic cover lenses are standard.

Style 5051

— Welsh "Soft-I" for Chippers'



Patent Pending

STYLE 5070 — WELSH "CYCLOPS" FOR WELDERS

Welders' Soft Side Eye Shield — Soft, resilient, one piece, opaque frame blends comfortably to the face. Simplified lens holder eliminates need for springs and

washers and permits easy changing of filter and cover plates. CR 39 Plastic cover plate is standard.

Style 5071 — Welsh "Cyclops" for Chippers'

WELSH — Willingly Worn By Workers Everywhere



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DISTINGUISHED VISITORS from other lands see how jet engines are built at Ford's Aircraft Engine Division.

From Across the Sea

Safety leaders from many countries attend Congress; see American industry at work

THE 45th National Safety Congress was more distinctly international in flavor than any preceding Congress, because of the attendance of a specially invited group of guests representing 20 countries around the globe.

Top level industrialists and business executives and highly-placed government officials made up the special contingent of 34 delegates who accepted the special invitation of Ned H. Dearborn, president of the National Safety Council, to glimpse the extent of safety work in this country, as exemplified in safety's annual big show.

In addition to the annual meeting, the annual banquet and other major events of the Congress, the honored visitors were able to attend special sessions of their choice among the scores of meetings running simultaneously in five downtown hotels. They also participated in a special program

of tours to representative industrial plants in the Chicago area.

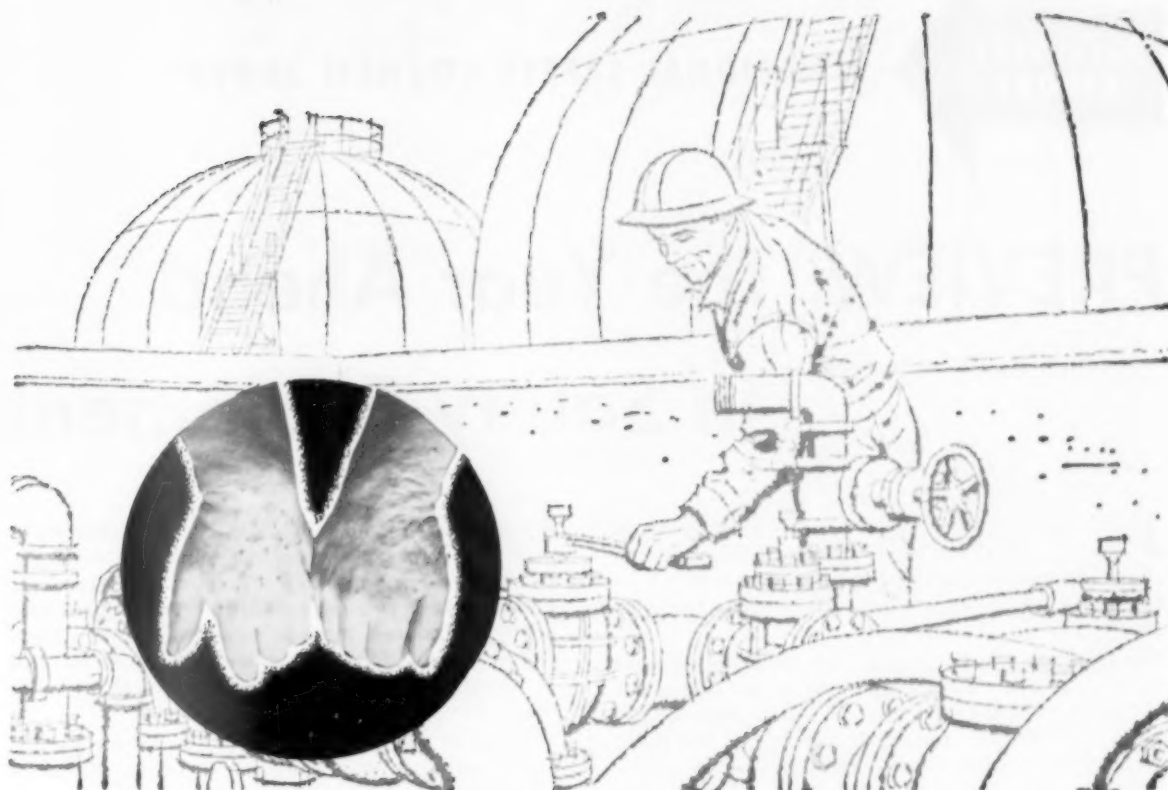
Host plants which arranged special tours and luncheons included the Jet Engine Division of Ford Motor Company, the Whiting refinery of Standard Oil Company of Indiana, and the Electromotive

Division of General Motors Corporation in LaGrange. At the close of the latter tour, the distinguished visitors attended the General Motors Victory Luncheon at the LaSalle Hotel.

A highlight of the week's activity—*To page 224*



EUROPEAN SAFETY problems are discussed by (l to r.) Sven Hyden of Sweden, Dr. Walter Linden of Germany and Mrs. Tyyne Leivo-Larsson of Finland.



Why **DERMATITIS** is a needless penalty

Dermatitis caused by industrial materials such as chemicals, oils and abrasives can be prevented. Simply. Inexpensively. With a basic program that safeguards and improves the hygiene of workers — the West Program of Dermatitis Prevention and Control.

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Why not discuss the West Program of Dermatitis Prevention and Control with one of our specialists? His recommendations will help you eliminate the needless penalty of dermatitis. No obligation of course. Just send the coupon.

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☐ Please have a West representative telephone for an appointment.

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Position

Mail this coupon with your letterhead to Dept. 3.

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PREVIEW: The Year Ahead In Safety Equipment

JUST before going to press with this year-end issue of the *NEWS*, we asked some 800 safety and allied equipment manufacturers for a run-down on recent changes, modifications, and new ideas in their products.

The response was surprising. The safety equipment field is not a slave to public taste or to the dictates of "style" or to the other factors which require some industries (home appliances, autos) to regularly each year introduce new models of their products. Thus, the safety equipment people do not change for change's sake... but for the sake of better performance and greater efficiency of their products. And such changes, of course, follow no timetable. A perfectly good safety product may continue unchanged in any detail for years and years; or as a result of research, new industry needs, or the development of new materials, this same product may be modified and improved several times in the course of a few years.

So, we were surprised to learn, as a result of our survey, that there will be much that is new in safety equipment. Not that you will find in our survey

report dramatic and revolutionary new safety products (shall we say an accident immunity vaccine!). But you will find in our brief report many products that have been refined, modified, or which have been newly introduced that, in some way and in some degree, might do a particular job better for you... might prove more versatile or durable... or might give better, longer service.

Because of the number of responses to our survey, the descriptions are of the capsule variety. For more complete information on any product listed here, see the "New Safety Equipment" section of this and future issues of the *NEWS*. You may also write to the *NEWS* for addresses of companies listed in this report.

We're indebted to the many safety equipment manufacturers who cooperated with the *NEWS* by preparing special data for this survey. Descriptions and claims made for products are, of course, those of the manufacturers and should not be construed as endorsement or approval of the products, by the National Safety Council.

THE EDITORS

Housekeeping and Maintenance

New cleaning compounds, non-flammable cleaners, polishes and waxes with greater anti-slip coefficients, and conductive floor cleaners are featured developments for 1958.

Wyandotte Chemicals reports two new floor waxes—"Raltec" and "Lumex." Both contain a synthetic plastic that gives long life to the finish and good anti-slip qualities.

A non-flammable cleaning compound "Danite," manufactured by

the **Daniels Company**, is designed for cleaning production machinery, floors, and windows, and for use wherever a strong cleaning compound is needed. It is diluted with water.

Fine Organics also has introduced a non-flammable cleaner called "Finorclean." It is a liquid concentrate for all types of floors and removes dirt, grease and oil without leaving a residue.

Conductive flooring can be cleaned with a U. L. approved cleaner produced by **Hillyard Chemical**. The specialized cleaner

does not alter the conductive properties of the floor in any way and leaves no dielectric residue.

Stepladders featuring advance design, durability and longer ladder life are being manufactured by **Patent Scaffolding**. The three U. L. inspected, advance-design ladders have flush steps and bar-type back construction.

Designed primarily for school and home playground safety, a new rubber protective matting also has industrial applications.

Mitchell Rubber Products has de-

—To page 256

for comfort, safety, ventilation...
these "soft sides" are
hard to beat!



- Extra Wide Frame ... Fits Over Personal Glasses
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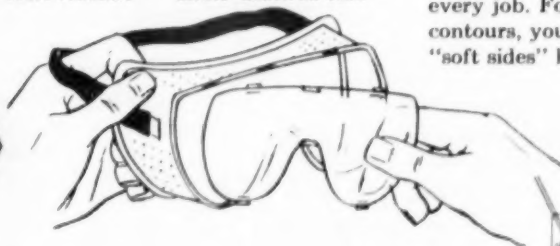
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Books, pamphlets and periodicals of interest to safety men

Compiled by Ruth Parks, Librarian, NSC

BOOKS AND PAMPHLETS

Aeronautics

The Fire Safety Program at Boeing—Wichita. Willis Seal, National Fire Protection Association, 60 Battery March St., Boston 10. 1957. 8p. \$1.00 Aviation Bulletin No. 194.

Large Loss Aircraft Fire Accidents of 1956. National Fire Protection, 60 Battery March St., Boston 10. 1957. 48p. \$3.00. Aviation Bulletin No. 190.

Chemicals

Dimethylaniline. Association of Casualty and Surety Companies, 60 John St., New York 38. 1957. 11p. Chemical Hazard Information Series C-67.

Fire Protection

Fire Occupancy Record—Motels. National Fire Protection Association, 60 Battery March St., Boston 10. 1957. 8p. 50c.

Fire Safety in the Small Industrial Plant. Industrial Commission of Ohio, Columbus 15, Ohio. 1957. 31p.

Goggles

Lens Materials in The Prevention of Eye Injuries. Arthur Hail Keeney,

Charles C. Thomas, Springfield, Ill. 1957. 63p.

Mines

Survey of Fire-Fighting Facilities at Coal Mines. U.S. Bureau of Mines, Publications Distribution Section, 4800 Forbes St., Pittsburgh 13, Pa. 1957. 37p. Report of Information 5363.

Nuclear Science

American Standard—A Glossary of Terms in Nuclear Science and Technology. American Society of Mechanical Engineers, 29 West 39th St., New York. 1957. 188p. \$5.00. ASA N1.1-1957.

Radiation

Effects of Radiation and Fallouts. James F. Crow. Public Affairs Pamphlets, 22 East 38th St., New York 16. 1957. 28p. 25c. Pamphlet No. 256.

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Copter Crash Analysis Gives Design Factors. A. Howard Hasbrook. Aviation Age, Oct. 1957, p. 72-76.

Artificial Respiration

New, Safer Method of Artificial

Respiration Described. Safety, Sept. 1957, p. 5-6.

Chemical Industry

Integration of Safety Principles into a Development Program. R. W. Cairns and Jack Barsha. Industrial and Engineering Chemistry, Oct. 1957, p. 1728-1733.

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Arterial Fibrillation due to Accidental Electric Shock. William H. Wehrmacher. Journal of the American Medical Association, Sept. 28, 1957, p. 349-351.

Eyes

Industrial Light Conservation. S. M. MacCutcheon. Industrial and Engineering Chemistry, Oct. 1957, p. 105A-106A.

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Developing an Industry Fire Policy. Lowe H. Wiggins. The Plant, Oct. 1957, p. 43-46.

Fatal Processing Plant Blast Has Far-Reaching Repercussions. Fire Engineering, Oct. 1957, p. 1024-1027.

Fire—Meat Industry Loss Could Be Cut by Better Prevention Measures. Fred W. Kempf. National Provisioner, Oct. 19, 1957, p. 14-16.

Fire-resistant Hydraulic Fluids Mean Safer Die Casting. H. M. Eversz. The Tool Engineer, Oct. 1957, p. 113-115.

How's Your Fire Prevention? Hotel Monthly, Oct. 1957, p. 52-53.

Venting Dust Explosions. Irving Hartman and John Nagy. Industrial and Engineering Chemistry, Oct. 1957, p. 1734-1740.

Floors

Good Flooring and Plant Safety. Leo Liberthson. Supervision, Oct. 1957, p. 20-21.

Take Care in Floor Maintenance. Modern Sanitation and Building Maintenance, Sept. 1957, p. 23-25.

Health

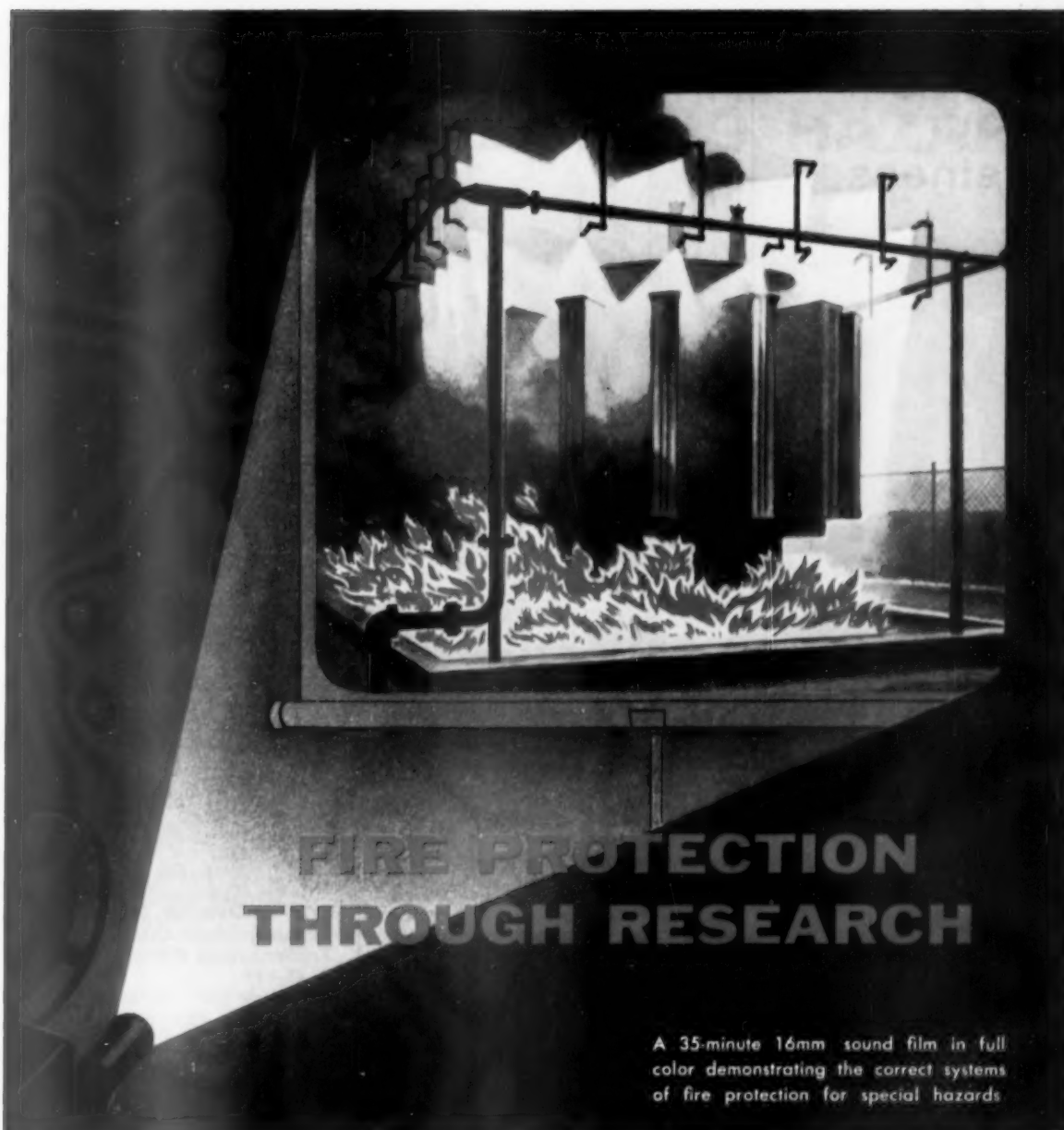
Beryllium Hazard Evaluation and Control Covering a Five-Year Study. R. N. Mitchell. American Industrial Hygiene Association Quarterly, Sept. 1957, p. 207-213.

Industrial Hygiene of Metals of Recent Industrial Importance. Industrial and Engineering Chemistry, Sept. 1957, p. 87A-88A.

Industrial Lung Disease. John P. Wyath. Best's Insurance News—Fire and Casualty, Oct. 1957, p. 29-31+.

The Pulmonary Effects of Synthetic Silicates Derived from Diato-





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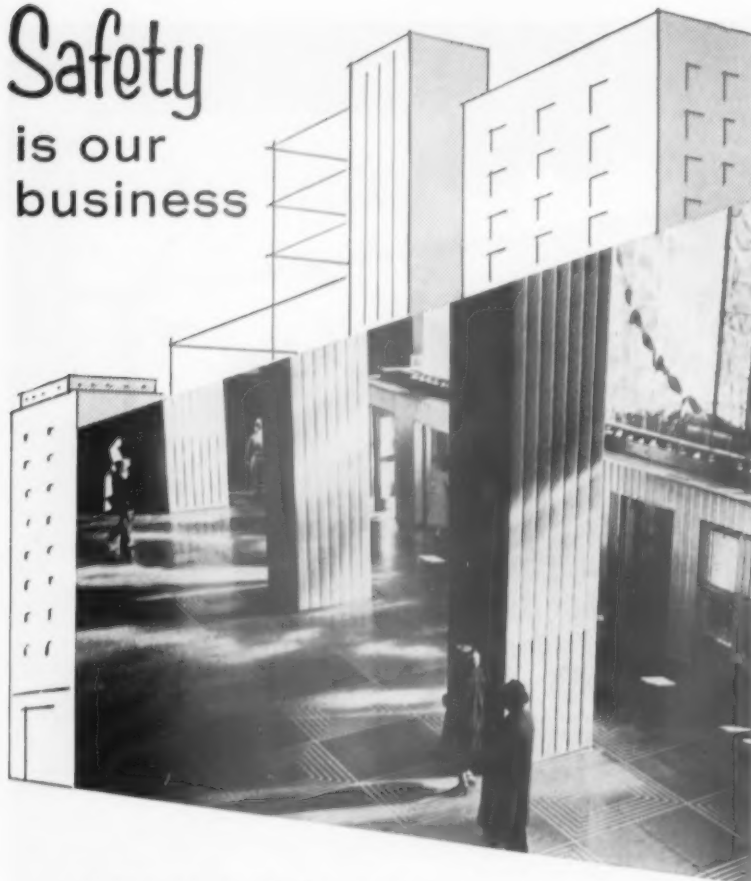
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Silicone products in the Management of Occupational Dermatitis. J. L. Salomon and others. *Industrial Medicine and Surgery*, Oct. 1957, p. 474-476.

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Fighting Accidents With Facts. Henry M. Parrish and Thomas P. Weil. *Hospitals*, Oct. 1, 1957, p. 32-34.

Radiation Protection Barrier: The Concrete Curtain. Frank E. Hoecker. *Hospitals*, Oct. 16, 1957, p. 45-46+.

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Survey of Hazards of Handling Liquid Oxygen. *Industrial and Engineering Chemistry*, Sept. 1957, p. 81A-82A.

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Use of Aluminum Powder in Changehouses. T. E. Newkirk. *Canadian Mining Journal*, Sept. 1957, p. 128-132.

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The Effects of Research Upon Legislation and Claims. Floyd E. Frazier. *Noise Control*, Sept. 1957, p. 43-49+.

Hearing loss in Relation to Industrial Noise—Exposure. William Grings and others. *Industrial Medicine and Surgery*, Oct. 1957, p. 451-458.

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Boost Your Profits with Safety. L. E. Johnston. *The Paper Industry*, Sept. 1957, p. 500-501.

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Supply and Exhaust Ventilation for the Control of Metal Pickling Operations. Geo. M. Hama. *American Industrial Hygiene Association Quarterly*, Sept. 1957, p. 214-217.

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Rehabilitation

Industrial Injury—The Practical Need for Evaluation of Capability.

Leonard J. Yamshon. *Journal of the American Medical Association*, Oct. 26, 1957, p. 934-938.

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How to Reduce Power Saw Accidents. *Pulp and Paper*, Nov. 1957, p. 124.

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Wire Rope

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American Industrial Hygiene Association Quarterly, 605 N. Michigan Ave., Chicago 11.

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California Safety News, Division of Industrial Safety, 965 Mission St., San Francisco 3.

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Electrical Engineer, American Institute of Electrical Engineers, 33 W. 39th St., New York 18.

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Modern Sanitation and Building Maintenance, Powell Magazines, Inc., Easton, Pa.

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Noise Control, 335 E. 45th St., New York 17, N. Y.

The Paper Industry, 431 S. Dearborn St., Chicago 5.

The Plant, St. Joseph, Mich.

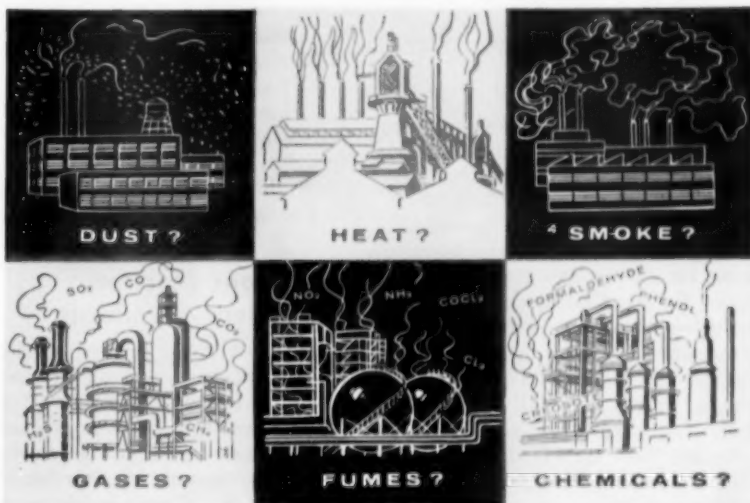
Pulp and Paper, Miller Freeman Publications, Bristol, Conn.

Safety, Greater New York Safety Council, 60 E. 42nd St., New York 17.

Supervision, 404 N. Wesley Ave., Mount Morris, Ill.

The Tool Engineer, 10700 Puritan Ave., Detroit 38, Mich.

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Voice of the Reader

Let's have your views on current topics. You don't have to agree with us

Malicious Enforcement

BROOKLYN, N. Y. When I read your editorial, "Not Sporting?" (October, page 4) in which you back the use of radar and unmarked cars to catch speeders, one thing came to mind—things must be getting hot for the National Safety Council. I for one have been waiting for the day to come when you will be forced up against the wall. Of course, this means that I too will be faced with the wrath of outrageous citizenry and it will take some time for safety to again take a position of trust and importance.

I was taught and was practicing the 3 E's of safety as the formula to prevent accidents. Education was to be used but not to be relied upon, and as for enforcement, any time I resorted to that it was a clear indication I was slipping.

If in my approach to a problem I was met with general reluctance then I was to change my course to make my eventual goal universally acceptable. Safety and the safety man had to be above reproach if the safety program was to work.

The National Safety Council, since the war, has taken a new tack. Engineering is no longer the No. 1 position in the 3 E's. The fear campaign and the use of unrestricted and downright malicious law enforcement was the new approach to safety. As for results—well, how many have we killed and injured so far?

If you noticed, I have included myself as a party to murder, for, although I have written articles and letters calling for a stop to this type of safety program, I as a member of the American Society of Safety Engineers must also take blame for these accidents.

However, I do see a streak of light coming through the clouds.

Eventually the licensing of safety engineers will be a reality and with it will return the type of safety program that does stop accidents.

My files on this subject seem to prove that the above is the only positive method we have left to redeem ourselves in the eyes of the public.

I earnestly hope that it will not be too long in coming, so that not only the public but safety men as well will not be a statistic for the safety huckster to crow over.

—Nathan Feigenblatt, Jr.

Industrial Safety Consultant

13 Nations Meet to Set Nuclear Standards

THE FIRST steps toward world standardization for peaceful use of nuclear energy were taken by 61 delegates from 13 countries at a recent meeting of the International Organization for Standardization (IOS), Geneva, Switzerland. Results of the meeting were received recently by the American Standards Association, U. S. member of the 38-country organization.

Under the chairmanship of Morehead Patterson, president, American Machine and Foundry Company, New York, the first meeting of ISO Technical Committee 85 on Nuclear Energy outlined six areas of work. They are:

1. Development of a tri-lingual glossary of terms applicable to nuclear energy and based on work already done in various countries.
2. Development and approval of a warning symbol for use wherever danger from ionizing radiation is present.
3. Adoption of units pertaining to nuclear energy, developed by the In-

ternational Commission on Radiation Protection and the International Commission on Radiological Units.

4. Development of symbols required for drawings pertaining to nuclear equipment and installations.

5. Development of international recommendations relating to measurement of radiation and protection against radiation.

6. Development of internationally acceptable guides for safe design, operation and maintenance of nuclear reactors.

The United States holds the secretariat of the committee through the American Standards Association. The ASA accredited 15 delegates to represent the U. S. at the meeting. Vice-Admiral W. A. Kitts, 3rd, USN (ret.), General Electric Company, headed the U.S. delegation. Vice-Admiral G. F. Hussey, Jr., managing director of the American Standards Association, was secretary of the delegation and also of the meeting.

All work of the technical committee and its subcommittees will take account of work already done by national and international organizations to the end that there may be no unnecessary duplication of efforts, according to a statement of results prepared by the ISO. The ISO work covers the same basic areas as the standards program now going on in the U.S. under the procedures of the American Standards Association.

Nineteen nations are participating members of ISO/TC85. They are: Austria, Bulgaria, Finland, France, Germany, Israel, Italy, Japan, Czechoslovakia, Netherlands, Poland, Spain, Sweden, Turkey, United Kingdom, U.S.A., U.S.S.R., Yugoslavia, Hungary.

Seven international organizations were also represented at the meeting: United Nations General Secretariat, United Nations Educational, Scientific & Cultural Organization, International Labor Organization, World Health Organization, The International Commission on Radiological Units, International Commission on Radiological Protection, and the International Electrotechnical Commission.

The next meeting of the technical committee will be held June 1958 during the ISO meetings at Harrogate, England.



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AROUND THE COMPASS



ACTIVITIES • PROGRAMS • EVENTS

By Nils Lofgren

Field Service Department, NSC

Managers' Institute Held October 14-17

A managers' training institute was held in National Safety Council headquarters from October 14 to 17.

The institute was attended by representatives of ten organizations and by eight of the new members of the Field Service Department of the NSC.

Instruction for the Institute was provided by executives and staff members of the NSC. Subjects covered were:

- History of Organized Safety and Fundamentals of Accident Prevention;

- Safety Organization Plans and Elements of Good Safety Organization Management;

- Relationship with Official Agencies;

- Individual Case Studies of Organization Practices—Objectives and Operating Policies;

- A Balanced Program;

- Administration of Annual Inventory of Traffic Safety Activities;

- Building a Program to Meet Your Needs;

- Budgeting Time, Program, Resources;

- Organization Leadership and Adequate Resources;

- Assistance Other National Organizations Can Provide Local Organizations;

- Appraising Program Results.

The Institute was concluded with presentations on NSC services in these fields: Industrial, School and College, Church, Home, Women's, Farm, Labor and Public Information.

Attending the Institute were:

Robert J. Forman, Michigan State University, East Lansing, Michigan; Paul M. Fulcomer, manager, Omaha Safety Council; Robert W. Gillette, executive director, Wisconsin Council of Safety, Madison; Alymer B. Hussey, executive secretary, Contra Costa Safety Council, Concord, Calif.; James S. Keller, program director, Metropolitan Safety Council, Denver, Colo.; N. L. McLaughlin, president, Long Beach Safety Council, Long Beach, Calif.; P. M. O'Connell, executive director, Lake County Safety Commission, Libertyville, Ill.

Lee Scranton, information representative, Illinois Division of Traffic Safety, Springfield; Charles M. Whitson, director of public safety education, City of Lubbock, Tex.; Hal A. Wyrick, executive secretary, Amarillo Traffic Commission and Traffic Safety Administrator, City of Amarillo, Texas; and Evett N. Allen, Edward H. Bovich, Vincent R. Gallalee, Robert C. L. George, Henry M. Hambrecht, Jr., Hal Kent, Nils A. Lofgren, Robert M. Sorensen, all of the NSC Field Service Department.

Wisconsin Conference Scheduled

Wisconsin's 16th Mid-Winter Safety Conference and Exposition will be held at the Hotel Schroeder, Milwaukee, Thursday and Friday, January 30-31, 1958.

The two-day event will be co-sponsored by the Wisconsin Council of Safety, Inc., and its 35 affiliates, the Industrial Nurses Section of the State Nurses' Association, and the Wisconsin Truckers' Safety Council.

Hold Truck Rodeo and S.O.S. Day

One hundred and five drivers competed in British Columbia's Annual Truck Rodeo held in September. Contestants from all parts of the Province, including army and air force personnel, took part. The finals were held on Vancouver's S.O.S. (Safety on Streets) Day, Sunday, September 29, with approximately 15,000 persons in attendance.

The Workmen's Compensation Board, fire departments, the Canadian Red Cross, and many other accident prevention organizations took an active part. Safety

—To page 236



PAUL F. HILL, manager, Field Service Department, discusses services of national safety organizations with Managers' Institute.

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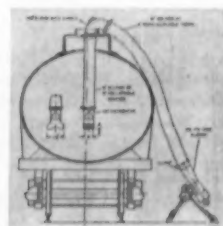
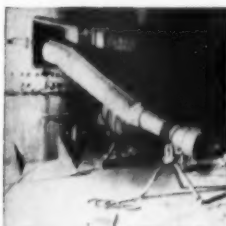
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COMING EVENTS



in the
safety field

Dec. 9-10, New Orleans

Louisiana Safety Association Conference (Roosevelt Hotel). Charles E. Doerler, secretary, Louisiana Safety Association, P. O. Box 1148, Shreveport, La.

1958

Jan. 30-31, Milwaukee

Sixteenth Annual Mid-Winter Safety Conference and Exhibition (Hotel Schroder). R. W. Gillette, executive director, Wisconsin Council of Safety, 1 W. Wilson St., Madison 2, Wis.

Feb. 6-7, San Francisco

Eighth Annual California Statewide Meeting of the Governor's Industrial Safety Conference. (Fairmont Hotel). A. C. Blackman, chief, Division of Industrial Safety, California Department of Industrial Relations, 910 Mission St., San Francisco 3.

Mar. 2-4, Memphis, Tenn.

Southern Safety Conference and Exposition. (Peabody Hotel). W. L. Groth, executive director, Southern Safety Conference, Inc., P. O. Box 8927, Richmond 25, Va.

Mar. 5-6, Philadelphia

Annual Regional Safety and Fire Conference and Exhibit of the Philadelphia Safety Council (Bellevue-Stratford Hotel). Harry H. Verdier, executive director, Philadelphia Safety Council, Chamber of Commerce Bldg., 121 S. Broad St., Philadelphia 7.

Mar. 16-19, Dallas, Tex.

Nineteenth Annual Texas Safety Conference. (Adolphus Hotel) J. O. Musick, general manager, Texas Safety Association, Inc., 830 Littlefield Bldg. Austin, Tex.

Mar. 17-18, Boston

Thirty-seventh Annual Massachusetts Safety Conference and Exhibit (Hotel Statler). Bert R. Harmon, assistant manager, Massachusetts Safety Council, 31 State St., Boston 9.

Mar. 17-19, Los Angeles

Fifth Annual Western Safety Congress and Exhibits. Joseph M. Kaplan, manager, Greater Los Angeles Chapter, National Safety Council, 3388 W. 8th St., Los Angeles 5.

Mar. 18-19, Fort Wayne, Ind.

Northeastern Indiana Safety Conference and Exhibit. Ivan A. Martin, man-

ager, Safety Council, Chamber of Commerce of Fort Wayne, Fort Wayne, Ind.

Mar. 25-27, Pittsburgh, Pa.

Thirty-third Annual Western Pennsylvania Safety Engineering Conference and Exhibit (Penn-Sheraton Hotel). Harry H. Brainerd, executive manager, Western Pennsylvania Safety Council, Inc., 605 Park Bldg., Pittsburgh 22, Pa.

Apr. 9-11, Gainesville, Fla.

Fifth Annual Conference on Accident Prevention Engineering (University of Florida). Donald B. Wilcox, conference coordinator, Department of Industrial Engineering, University of Florida, Gainesville, Fla.

Apr. 14-18, New York

Twenty-eighth Annual Safety Convention and Exposition of the Greater New York Safety Council (Hotel Statler). Paul F. Stricker, executive vice-president, 60 E. 42nd St., New York 17.

Apr. 16-17, Indianapolis

Eleventh Central Indiana Safety Conference and Exhibit. (Claypool Hotel). Jack E. Gunnell, director, Indianapolis Safety Council, Chamber of Commerce, Indianapolis, Ind.

Apr. 21-22, Toronto, Ont.

Annual Conference of the Industrial Accident Prevention Associations (Queen Elizabeth Bldg., Canadian National Exhibition). R. G. D. Anderson, general manager, IAPA, 90 Harbour St., Toronto 1, Ont.

Apr. 22-24, Columbus, Ohio

Twenty-eighth All-Ohio Safety Congress and Exhibit (Deshler-Hilton Hotel). Arthur W. Moon, congress manager, Room 611, Ohio Dept. Bldg., Columbus 15, Ohio.

May 8-9, Baltimore, Md.

Governor's Annual Safety-Health Conference and Exhibit. (Lord Baltimore Hotel). Joseph A. Haller, executive chairman, Department of Labor and Industry, 12 E. Mulberry St., Baltimore 2, Md.

May 14-16, Asheville, N. C.

Twenty-eighth Annual, North Carolina Statewide Industrial Safety Conference. (Battery Park Hotel). H. S. Baucom, director of safety, North Carolina Industrial Commission, Raleigh, N. C.

May 20-21, Louisville, Ky.

Kentuckiana Safety Conference and Exhibit. (Kentucky Hotel). Estel Hack, executive vice-president, Louisville Safety Council, 214 Speed Bldg., Louisville 2, Ky.

June 9-12, Cleveland, Ohio

Eighth National Materials Handling Exposition (Public Auditorium). Clapp & Pollak, Inc., Exposition Management, 341 Madison Ave., New York.

Oct. 20-24, Chicago

Forty-sixth National Safety Congress and Exposition (Conrad Hilton Hotel). R. L. Forney, secretary, National Safety Council, 425 N. Michigan Ave., Chicago 11.



DISPLAY DEARBORN PORTRAIT. Council President Ned H. Dearborn smiles approvingly as staff artists hang his recently painted portrait in the employees' lounge at NSC headquarters. Left to right: Cliff Benton, painter of the portrait; Dearborn; George Mally and Glenn Butler.

ICY WORK SURFACES mean



Prevent winter mishaps with Wyandotte ZORBALL

This winter, guard against costly accidents and work delays. Protect your employees and vehicles from dangerous skidding with Wyandotte ZORBALL.

A thin layer of ZORBALL on icy walks, platforms, loading and shipping docks, ramps, and drive-ways, will give your plant safety assurance that nothing else can provide. And for protection against on-the-road emergencies, it's a good idea to carry a bag

of ZORBALL in all your trucks and vehicles.

Use ZORBALL *inside* the plant, too. It's a wonderful floor absorbent. It provides safe, non-slip surfaces; will not cake or break down; absorbs water, paint, oil, grease—any liquid. And ZORBALL is fireproof, even when saturated with combustible liquids — an ideal product for fire prevention.

Call your Wyandotte representative or jobber for a demon-

stration today. Wyandotte Chemicals Corporation, Wyandotte, Michigan. Also Los Nietos, California. Offices in principal cities.

 **Wyandotte**
CHEMICALS

J. B. FORD DIVISION



Aisles of Safety

A visit to the Exposition was an interesting and rewarding experience for Congress delegates

FOR most delegates, a Congress isn't complete without a trip through the Exposition. In this safety supermarket he finds practically every product or service needed for carrying on a safety program, visits with representatives of manufacturers and distributors he has been dealing with, and meets many a fellow safety man he hasn't seen in the meetings.

This year there were 186 exhibits, plus six displays sponsored by non-commercial organizations. They overflowed the available space in the vast Exhibit Hall and occupied locations on the second and third floors adjacent to the meeting rooms.

In a central spot in the lower lobby was the National Safety Council's exhibit of services and publications and also displays of various divisions of the Council. Representatives of the Council Library were on hand to take care of the many requests for information.

Among the products on display, personal protection led the parade. At 75 exhibits were items of equipment for protection of various parts of the body—eyes, face, head, respiratory organs, feet, hands, arms and legs. They ranged from everyday work gloves to suits that would enable the wearer to survive unbelievable heat.

Plant protection came next with 23 displays featuring fire-extinguishing equipment, sprinkler systems and accessories, and safety solvents.

Guards for many types of machines and tools with a variety of safety features were shown at 16 booths.

Products and equipment for plant sanitation and maintenance and personal hygiene were displayed in 16 exhibits. Included were products for floor treatment to promote cleanliness and to reduce slipping hazards.

First-aid and medical supplies and equipment, including resuscitation apparatus, were featured by 16 exhibitors.

Products, publications and services for instruction, warning, and influencing attitudes were shown in 15 exhibits.

In 11 displays were various types of equipment for handling materials and making in-plant traffic safer.

There were 10 exhibits of ladders, scaffolds, work platforms and flooring materials, all designed to provide safe footing for work at various heights.

At three booths visitors were having their vision tested with sight-screening instruments. Two others offered hearing tests. At another exhibit drivers could have their road skill tested under simulated driving conditions.

Another exhibit which had a
—To page 244



DURING CONGRESS WEEK, Sellstrom Manufacturing Company took 40 Congress delegates by helicopter from Meigs Field on Chicago's lake front to the company's plant at Palatine, Ill. Daily drawings determined those selected for the trip. Those making the trip received membership cards in the company's "Eggbeater Club." In the above group, all except the lady and the guy with the camera are members of the Sellstrom organization. Left to right: G. E. Sellstrom, Don Bonney, Truman Baldwin, Carman Fish, Mrs. Phyllis Rouse (Mrs. Illinois of 1957), Roger Sellstrom, Dick Whitton, Lester Gooch and Fred Schaefer.



Make Those Heavy Lifts with Confidence

Here's an interesting rig-up employed in the handling of a 26-ft, 73-ton water-wheel shaft. A load that heavy doesn't come along every day, and it was necessary to choose the slings with exceptional care. Strength was of course all-important.

There are two kinds of Bethlehem slings involved here—the eight-part-braided type, and the grommet type with equalizing thimbles. As the photograph shows, the braided slings were passed around the shaft, then looped over hooks suspended from the grommets. The ponderous load was handled with ease.

When you have good slings, you can make such lifts with complete confidence. Probably your own lifts don't approximate the size of this one. But whether you're

called upon to handle tonnage or only a few hundred pounds, you can bank on Bethlehem slings. They are made from the very top grade of wire rope, and are subject to rigorous inspection before shipment.

We can always supply the types your work requires—bridles, braided or single-part models, grommets, etc. Moreover, designs for specialized needs can be worked out and furnished quickly. Call us whenever our engineers can be of service to you.

BETHLEHEM STEEL COMPANY, BETHLEHEM, PA.

On the Pacific Coast Bethlehem products are sold by
Bethlehem Pacific Coast Steel Corporation, Export
Distributor: Bethlehem Steel Export Corporation

BETHLEHEM STEEL



Circle Item No. 22—Reader Service Card

CONSULTATION CORNER

By L. C. Smith, Industrial Department, NSC

Got a problem in accident prevention or occupational hygiene? Questions are answered by mail, a few of general interest being selected for publication here.

Disposal of Fluorescent Lights

Question: We would like information as to the process you recommend for disposal of fluorescent lights containing beryllium.

Answer: As you probably know, manufacturers of fluorescent lighting fixtures discontinued the use of beryllium about 1949. However, since there may still be some beryllium-coated lamps in use it is a good idea to handle and treat all fluorescent lamps on the assumption that they might contain harmful materials.

Occasional breakage of beryllium coated tubes creates no toxic dust problem. However, repeated or continuous exposure to the dust may affect the lungs.

The major hazard is from cuts and scratches caused by broken lamps where the powdered coating material may become lodged. If particles of the powder are not thoroughly removed from a cut received from a broken tube, the phosphors may delay healing and the injury may even require surgical care. For this reason it is imperative that such wounds receive immediate medical treatment by a physician who is acquainted with the nature of the injury.

For safe disposal of fluorescent tubes in large numbers they should be broken in a ventilated enclosure containing an exhaust blowing through a dust collector with the captured dust being wet down and removed. The operator should be equipped with, and required to wear, a respirator approved for toxic dust. The ultimate disposal of broken lamps should be such that the public and others will not be unduly exposed to powders. If it is necessary to break many lamps

within the building, the job should be done in an isolated room in a hood so as to minimize the escape of dust. Sufficient exhaust ventilation should be supplied through the hood to provide an air intake of at least 125 linear feet per minute at the breathing level.

In occasional disposal the lamps should be broken out of doors in a waste container. A single lamp may be sealed in an old carton or wrapped in several thicknesses of newspaper or wrapping paper, then placed in a disposal container and struck with a stick or shovel. Another method is to place several lamps in a weighted burlap bag, then break them in a tank or trough of water. The bag can then be removed and dropped into the disposal container.

Testing Conductive Soled Footwear

Question: We are interested in obtaining specifications and methods of testing conductive soled footwear. Not only are we interested in number of thousand ohms resistance, but also the voltage applied. Our company is engaged in manufacturing explosives.

Answer: It would be our recommendation that you procure from the American Standards Association, 70 East 45th Street, New York 17, a copy of American War Standard "Specifications for Protective Occupational Footwear," which combines in one pamphlet, at a cost of 75c, Standards Nos. Z41.1, Z41.3, Z41.4, Z41.5, and Z41.6. Z41.3 covers men's conductive shoes.

The Z41.3 Standards specifies that the electrical resistance of a new conductive shoe shall not exceed 250,000 ohms. The code

further states the following: "The electrical resistance of conductive shoes shall be tested periodically while in service. They shall be tested first without cleaning or removal of foreign materials which might affect the resistance, and if the resistance exceeds 450,000 ohms for each shoe, they may be cleaned and re-tested. After cleaning, if the resistance of shoes is less than 450,000 ohms for each shoe, such shoes may be returned to service. If the resistance of conductive shoes exceeds 450,000 ohms for each shoe, such shoes shall not be used."

The method of test given under Z41.3 code is also here quoted in full: "Two (2) dry electrodes, one electrode being a special block prepared for insertion in the shoe, shall be used. The special block should be shod with sponge rubber carrying a layer of metal foil. In testing, the metal foil shall be placed in contact with the insole of the shoe and electrically energized. The other electrode shall be a metal plate on which the shoe is placed, with the sole of the shoe in contact with the plate. The testing shall be done with a source of not less than 85 volts nor greater than 600 volts direct current, and the circuit shall be so designed that the maximum current on short circuit across the

—To page 275



WHERE a static spark might cause an explosion, as in hospital operating rooms, chemical and explosive plants, shoes must remain conductive, even after long wear. Here conductive shoes are being tested at Underwriters' Laboratories.

get protection plus
protection+economy+worker-acceptance



Y-60
all plastic frame



M-40
all-metal frame



Titan . . .
combination
metal-plastic
frame

with B&L

"new look" Safety Glasses

This family of B&L "new look" safety eyewear offers you unique advantages:

1. Increased protection in S-7 lens shape: wider field of vision, fuller eye coverage.
2. New economy by virtue of reduced and simplified inventory: you can interchange temples and side shields to suit workers—and eye hazards.
3. Gratifying cooperation from workers: they like to wear the "new look," they deserve to have its comfort.

In plano or prescription lenses. For more details, phone the B&L supplier in your area, or write: Bausch & Lomb Optical Co., 90324 Smith Street, Rochester 2, New York.



America's only complete optical source—glass to finished product



Top-quality wire rope is basic to safety

Wire rope must stand up under rugged, heavy-load-moving jobs. A rope that breaks under load can cause injuries to crews or workmen and damage to costly equipment. That's why it is essential to safety for you to choose the right rope for your jobs.

Such accidents can be minimized by using top quality ropes on your jobs. The rules

to follow are simple. First, make sure that the rope you choose for the job has a reasonable safety factor. Second, see that it is properly maintained.

Don't be fooled. All brands of rope are not of equal quality. Insist that you get top quality wire rope—buy Wickwire Rope to be sure.



**LOOK FOR THE
YELLOW TRIANGLE**

**PRODUCT OF WICKWIRE SPENCER STEEL DIVISION
THE COLORADO FUEL AND IRON CORPORATION**

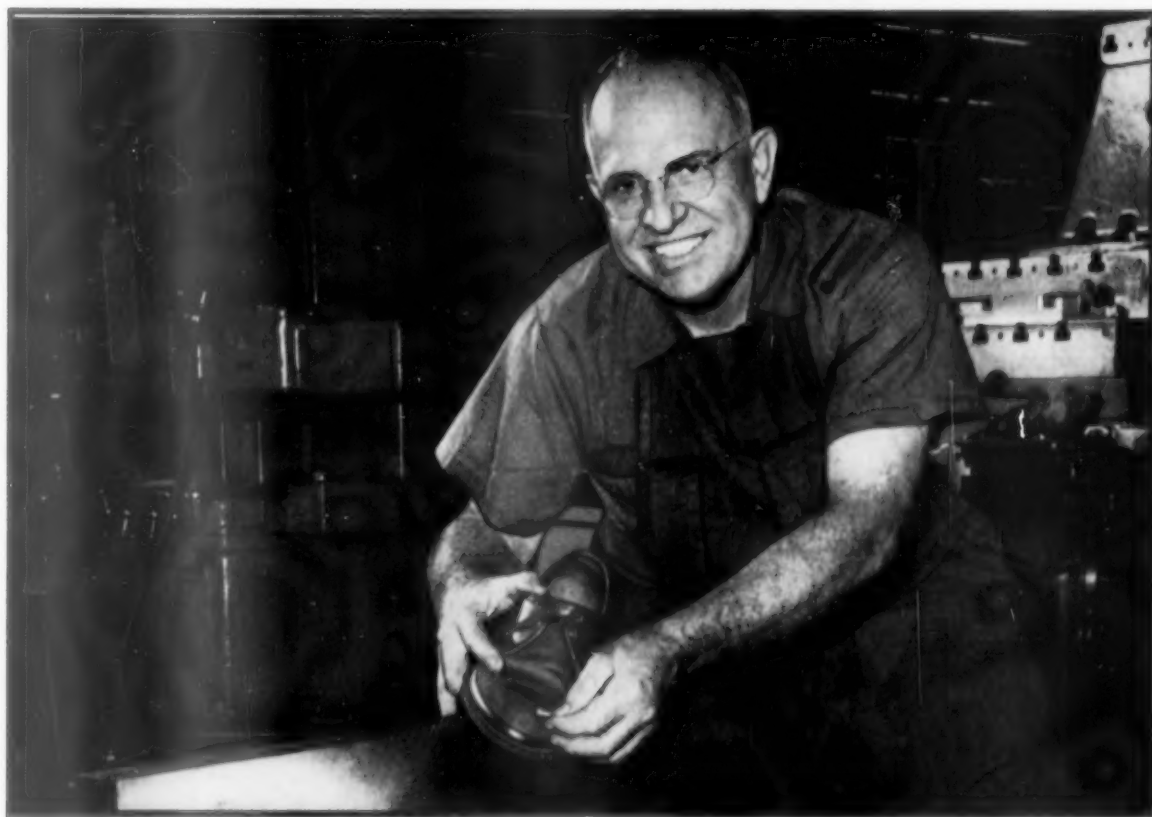
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WICKWIRE SPENCER STEEL DIVISION—Boston • Buffalo • Chattanooga • Chicago • Detroit • Emlenton (Pa.)
New Orleans • New York • Philadelphia

Circle Item No. 24—Reader Service Card

National Safety News, December, 1957



“Wouldn’t be without Thom McAn Safety Shoes,”

says BILL PALMER, machinist at Temco Aircraft Corporation, Dallas.

THE picture shows Bill Palmer and the 400-lb. solid steel slab which fell on his foot. He’s holding the Thom McAn Safety Shoe that he was wearing. The steel toe-cap was driven into the sole of the shoe—but was itself hardly even dented. Bill’s foot was uninjured. He had to get new Thom McAn Safety Shoes—but he’s still wearing the same feet.

Now look at the Thom McAn S-4135. This is a fully-insulated Quilon®-tanned lace-up safety boot. It’s leather-lined throughout and has a cushioned insole—everything for real working *comfort*, and of course it has the Thom McAn steel toe-cap. Your men will really go for this rugged model. It can be used on hunting trips as well as at work.

BUY THEM THREE WAYS: 1. Directly from Thom McAn warehouses for plant inventory, or on mail-order basis. 2. Through Thom McAn’s special In-Plant Fitting Plan. 3. At Thom McAn Shoe Stores which are nearly everywhere. Send today for details on Thom McAn’s special money saving plans—plus full description of the new Thom McAn Safety Shoe line.

Write: Thom McAn Safety Division, 25 West 43rd Street, New York 36, N. Y.

©1957 Melville Shoe Corporation

Circle Item No. 25—Reader Service Card



*Reg. Trade Mark, E. I. du Pont de Nemours & Co., Inc.

Thom McAn SAFETY SHOES

A Division of Melville Shoe Corporation



CONGRESS QUOTES

Some practical thoughts from the sessions
of the 45th National Safety Congress

Safety in Swaddling Clothes

Just because a plant's safety program has been in existence a long time doesn't mean it's out of the immature stage.

There are four signs of maturity in a plant safety program:

1. Bringing into the organizational unit all the related plant activities that belong under the jurisdiction of the plant safety administrator.

2. Having a team of management, supervisors, employees, and union that works as a unit to insure plant safety.

3. Having an active program producing a successful safety record.

4. Moving the plant safety administrator into a staff position in the organization.

A safety program may be of ancient age while in know-how and function to control unsafe plant conditions and unsafe acts of people, it still is in swaddling clothes.

—R.L. DeBenon, plant safety director, Phoenix Extrusion Plant, Reynolds Metals Co. (Metals)

Let a Doctor Decide

Laymen aren't qualified to determine if a person is fit to return to normal duties after suffering an injury.

Columbus, Ohio, solved this problem by setting up an Employee Health Service. Many times I felt that an employee would not return to his regular duties because of the strenuous activities involved, but he was armed with a statement from his family physician and there was no alternative.

Some employees, because of financial hardship, will tell their doctors their jobs aren't strenu-

ous. The health service has ended all that, though. No employee returns to duty now unless certified by our medical staff.

—John E. Pagnard, safety coordinator, Employee Health Service, Columbus, Ohio. (Public Employee)

Fringe Benefits

Looking for ways to make friends and influence people? Try public service work.

Because of our association's activities in industrial safety, it was called on to lay the groundwork for the Mississippi state safety council. Safety promotion outside the association membership opened up an entire new public.

All these things are fringe benefits. Our public safety promotion has won us many new friends and influenced many new people. This type of public service work makes for an attractive and worthwhile program for any organization.

—John E. Gregg, executive vice-president, Mississippi Manufacturers Assn. (Small Business)



SAFETY VETERANS exchange greetings at Industrial Conference. W. Dean Keefer, Lumbermen's Mutual, left, and R. H. Ferguson, Republic Steel, chairman of the Conference, 1956-57.

Letter-Writing Campaign

In Ohio they've learned how to further railroad crossing safety—write letters.

The letter-writing is part of a state-wide program aimed at preventing crossing accidents. It comes in May during Highway-Rail Crossing Accident Prevention Week. Railroads observe drivers' actions at crossings and send reports to the Ohio State Safety Council.

More than 50 reports on vehicles that have violated regulations at crossings are received during the campaign. Violators are sent a letter asking that they—or anyone else who drives the vehicle—drive more safely.

—H.G.J. Hays, executive secretary, Ohio State Safety Council. (Railroad)

Automatic Maintenance

Railroad track maintenance in the future may be handled by remote control. It is possible that machines will become sufficiently automatic to permit proper spacing, moving, and working by remote control.

—L.A. Villella, safety inspector, Pennsylvania Railroad. (Railroad)

Automotive Safety Equipment

Industrial safety engineers are just as responsible for motor vehicle safety equipment as they are for plant safety equipment. It is their function to inform and advise executives in all matters pertaining to accident prevention—including motor vehicle safety equipment.

The safety engineer is responsible for organizing, stimulating, and guiding an accident prevention program. Keeping an eye on automotive safety equipment will benefit both the industrial acci-



**"We should've had
this stuff
on the ramp
years ago."**

Flooring of ramp is A.W. ALGRIP—world's only abrasive rolled steel floor plate—and today's safety record tells the ALGRIP story.

ALGRIP provides super-safe footing under the *most hazardous* slipping conditions—on flat or *inclined* surfaces. It's made by a patented process in which a grinding-wheel type abrasive is rolled—*not coated*—to a controlled depth as an integral part of tough steel plate. Usage merely exposes more non-slip abrasive surface.

To eliminate accidents on ramps, loading docks and wherever slipping hazards exist in your plant, specify A.W. ALGRIP. Make a test installation. Use ALGRIP as an overlay or as independent flooring. It fabricates easily, requires no maintenance and will soon pay for itself in reduced accident and insurance rates.

A.W. ALGRIP ABRASIVE ROLLED STEEL FLOOR PLATE

ALGRIP—approved for safety by Underwriters' Laboratories

ALAN WOOD STEEL COMPANY
Censhohecken, Pa.

Please send A.W. ALGRIP Booklet **AL-527**

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Title _____

Company _____

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City _____

Zone _____

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OTHER PRODUCTS:

A.W. SUPER-DIAMOND rolled steel floor plate—Plates—Hot and cold rolled sheet and strip—(Alloy and Special Grades)



SOL-SPEEDI-DRI®

**green-flecked to tell you
you've bought the best**

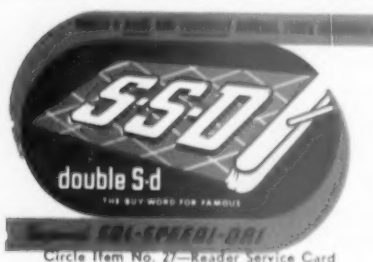
"double S-d"—Sol-Speedi Dri—is now green-flecked to tell you it's in a class by itself. "double S-d" was the first mineral oil and grease absorbent. It's the largest selling, because it is modern industry's greatest convenience.

New double S-d provides the most efficient floor coverage per pound, keeps plant floors clean and dry. Improved thirstiness and holding power, and the natural hardness and dustlessness of double S-d helps to reduce house-keeping costs and to increase production by keeping workers safely on the job.

When you order, be sure you check for the flecks—they're your identification of quality and value.

Get double S-d from your distributor today. Or check the coupon, attach to your letterhead and mail to SPEEDI-DRI DIVISION, Minerals & Chemicals Corp. of America, 2283 Essex Turnpike, Menlo Park, New Jersey.

- ☐ Free sample
☐ Literature
☐ Name of nearest distributor



dent record and the vehicular accident experience of an engineer's firm.

—William F. Brown, safety director, Consolidated Edison Co. (Traffic Accidents in Industry)

Seven Behavior Types

Anger, indifference, confusion, fatigue, carelessness, daydreaming, and worry. These are the behavior patterns that lead to accidents.

To acquaint supervisors with the human element in safety, my company has started a program combining human relations and safety—in the past taught individually.

Running a plant safely requires the ability to supervise all types of persons. Many of them may fit into one of the seven behavior types. Our program includes discussions on ways of handling such types.

To make the best use of each person's ability we need to have the skill of leading, always remembering that everyone is different, and recognizing that people must be treated as individuals.

—Robert L. Crane, manager of supervisory training, Goodyear Tire & Rubber Co. (Rubber)

Who's in Charge?

A plant safety engineer isn't necessarily the man in charge of safety.

At Bethlehem, a safety engineer, while he does plan and direct safety activities, does so in concert with other phases of operations. This serves to insure safety of operation—engineered safety. In my company, the safety engineer is not in charge of safety. Rather, he functions as a consultant and advisor to the people in charge of operations.

—Charles R. Neil, safety engineer, Bethlehem Cornwall Corp. (Mining)

Storehouse Needed

There's a need for a central storehouse of information on toxic chemicals. Much useful data exists on the toxicology of dangerous chemical materials, but, unfortunately, this information is

not available in any one place.

A committee, part of the Chemical Section of the National Safety Council, is working to bring about such a storehouse. Its aim is to cooperate with persons and institutions interested in promoting safety in the use of toxic chemicals.

—R.V. Montello, Research Div., National Cash Register Co. (Chemical)

Accidents and the Press

The press, radio, and television may be missing the boat as far as safety's concerned. I have taken issue with them on several occasions for their manner of presenting accident stories to the public.

Are they causing people to accept off-the-job accidents as part of modern-day living? If the media of communication are right when they say the public is more interested in reading bad news than good, then we must change public opinion.

We can do this two ways. First, there must be an understanding of the need for safety on the highway, in the home, and elsewhere. Second, the public must demonstrate its desire for safety by complying with regulations and cooperating with law enforcement agencies.

In my opinion, the average person is too busy to further safety—it may interfere with his personal plans.

—J.L. Ridinger, director of safety and plant protection, Inland Steel Co. (Home Safety)

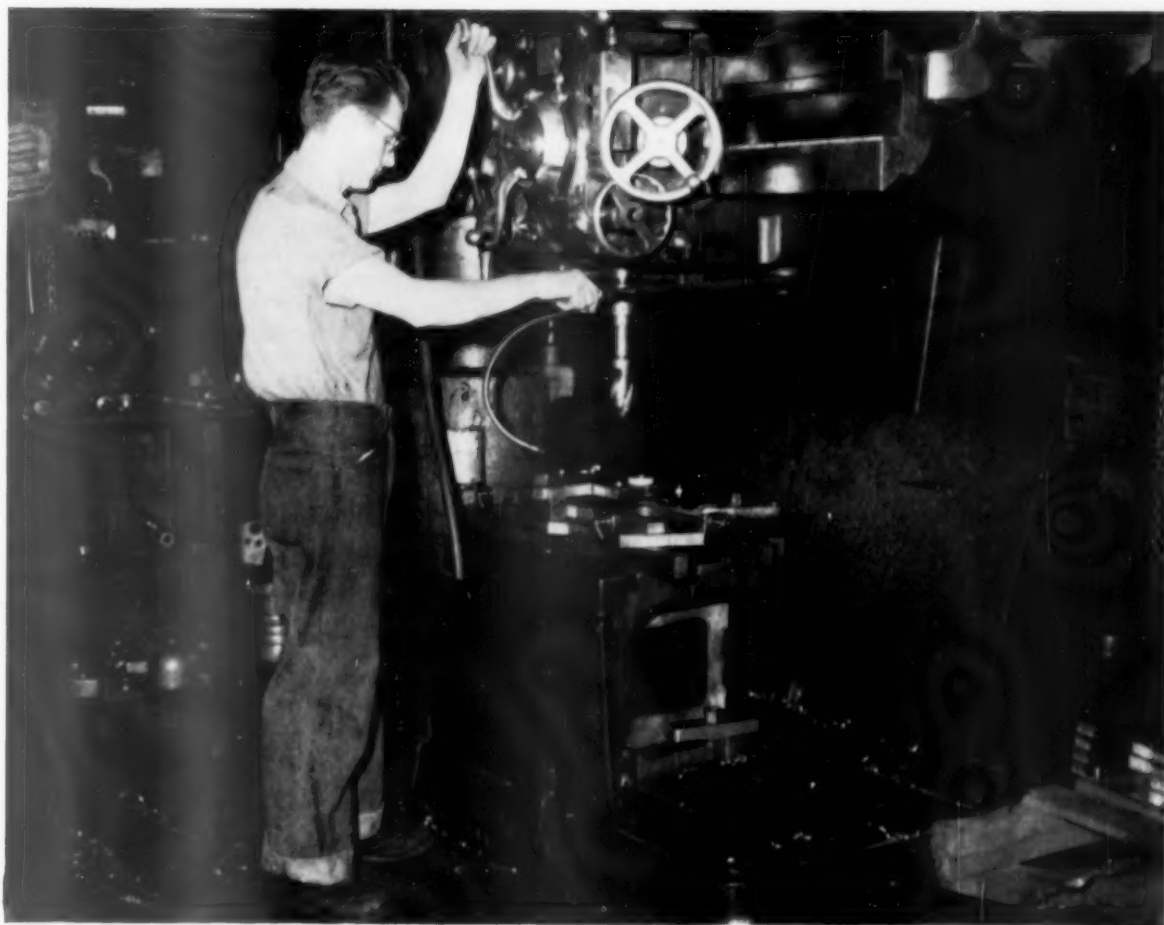
Importance of Rafts

Inflatable life rafts, a big safety factor in the past, probably will play an even bigger role in the future in marine safety.

Rafts saved the lives of 26,000 Allied airmen during World War II. Three airmen shot down over the Caribbean survived 139 days on an inflated life raft until rescued.

Rafts now have canopies which automatically inflate with the raft for protection from sun and rain. The Navy has developed a special one-man raft for rescuing men who fall overboard. Ejected from

—To page 271



Soles of Du Pont neoprene keep him safe on this slippery floor

Employees at Yale & Towne Mfg. Co. count on neoprene-soled safety shoes to prevent accidents

This drill press operator spends a lot of time on his feet. The floor around his machine is often covered by spray from the cutting oils used in drilling, and with metal chips. Footing can be hazardous.

Yale & Towne protects him, and the other shop employees in its Philadelphia plant, by keeping a supply of safety shoes with soles of Du Pont neoprene. Resilient neoprene is oil resistant . . . doesn't get soft and slippery.

Al Fisk, Safety Supervisor at Yale & Towne Mfg. Co., says: "The men in our machine shops prefer neoprene soles on their footwear. They know how important its non-slip properties are. Neoprene soles last longer, too."

Soles of Du Pont neoprene won't soften or crack when exposed to weather, fumes, oil or chemicals. Heat and flexing have little effect on them, and neoprene

stays flexible for a long service life. Your local rubber goods supplier is the man to see about protecting your workers with neoprene shoes, gloves and other safety clothing. The coupon below will bring you, free, the ELASTOMERS NOTEBOOK containing illustrated case histories and new neoprene applications.



Better things for better living
... through chemistry

NEOPRENE

— made by Du Pont
for 25 years

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& Co. (Inc.)
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Wilmington 98, Delaware
Please put my name on the mailing list
for the Elastomers Notebook.

Name _____
Position _____
Firm _____
Address _____
City, State _____

MAIL THIS COUPON NOW . . . WHILE YOU'RE THINKING ABOUT IT

Circle Item No. 28—Reader Service Card

**destroy
weeds
to get
safety**



*new chemical kills weeds and grasses
...prevents regrowth a full season!*

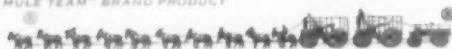
UREABOR® ... for industrial weed control

Here's the weed killer that's *specialized* for you! Yes, UREABOR was developed specifically to combat industrial weed problems and has proved effective. Maintenance men cheer this ready-to-use, dust-free granular weed killer—it's so convenient, so easy to apply dry. Effective rates of application are low—1 to 2 lbs. per 100 sq. ft. And, for treating large areas, special spreaders are available in both hand-operated and power-driven models. To learn more about UREABOR, write for literature today.



UREABOR IS A "30 MULE TEAM" BRAND PRODUCT

AGRICULTURAL SALES DEPARTMENT
United States Borax & Chemical Corporation
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Circle Item No. 29—Reader Service Card

United for Safety

—From page 21

ers, surely they will be better and safer road users than our own generation which did not have such good start.

Campaign planning and the production and provision of the necessary material is the Society's job. The actual campaign is carried out locally by the Road Safety Committee of local authorities who in many cases employ a road safety officer who comes to our training courses. The government subsidizes approved road safety programs of local authorities to the extent of 50 per cent. I must emphasize that I am referring to the educational aspect, training and propaganda.

The Society, in collaboration with the Ministry of Transport, selects an annual campaign theme. This we break down into quarterly periods for which we issue an appropriate planning guide containing sample material, suggested plans for local campaigns, etc. On top of this we produce a special Christmas pack and material for the bank holidays at Easter, Whitsun and in August. It is a sad commentary on our civilization that holidays should mean more accidents and that Christmas Eve should be our worst day of the year.

At RoSPA House, in the center of London, we maintain our permanent Road Safety Training Centre and Exhibition. With its staff of instructors, this center, by the use of all the visual aids, gives instruction which can be modified to interest children on the one hand and experts on the other.

Though faced with some 8,000 or more fatalities a year and an unknown number of injuries, this side of our work is the most backward and meets the greatest apathy, though I am glad to be able to add that it is really moving forward a little now. The victims are predominantly the old people and the under fives. The principal causes, so often due to ignorance or thoughtlessness, are falls in the case of the old, and suffocation, burns and scalds in the case of the young.

Slowly but surely we are getting local committees set up which will put in action a major educational campaign. We enlist the help of medical officers of health, district nurses, health visitors, clinics and indeed, every kind of women's organization which we can interest.

The Society produces educational and propaganda material for local committees to use and we are now issuing a regular quarterly planning guide.

Our homes provide us with our own backgrounds. What happens in them affects our attitude and frame of mind, not only when going to and from our place of work but also when at work. If we could really get to the bottom of every accident we might well find that some minor accident at home had set off a chain of reactions which became the primary cause of our accident on the road or at work.

The moral is, I suggest, that accident prevention is not a closed shop and that there must be a real overlap when dealing with the different kinds of safety work.

From a close study of your Congress Program, I am convinced that our problems are very similar to yours. I have come here to learn and to take new ideas back home with me. We are happy that in Great Britain we are assured of the closest possible contact and cooperation with your Air Force units stationed on our Island; we believe in an interchange of ideas and methods.





Now!

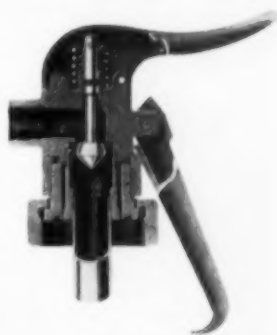
HIGHEST UNDERWRITERS' RATING for DRY CHEMICAL FIRE EXTINGUISHERS



PDC-2A
*PDC-5
*PDC-10
*PDC-20
*PDC-30

Pressurized - - - Ready to Go! Unmatched in Fire Smothering Efficiency!

Blazing flammable liquids or electrical fires are put out fast with American LaFrance Dry Chemical Extinguishers. Five models with model numbers designating pound capacity of each unit. Highest Underwriters' rating. Redesigned metal nozzle for greater dispersion. Always ready for action, they're easy to use . . . simply pull pin and squeeze lever. No gadgets to operate, no last minute pressurizing from gas cartridge or cylinder, no inverting, no bumping, no shut-off nozzle on the hose. A glance at the valve gauge shows their readiness for operation.



Cross-section view shows simple valve design, minimum of working parts.

*  Approved

NEW! 2-pound model packs fire-killing wallop of four 1-qt. vaporizing liquid types! The amazing fire-killer . . . harmless, non-toxic, non-corrosive. Ideal for both industry and home protection. Approved by Underwriters' Laboratories.

Write today for complete details or demonstration.



PDC-2A

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When you buy SKIN CLEANSERS for use by your men and women industrial workers, look beyond mere PRICE PER POUND and expect these things: GENTLENESS to the skin, THOROUGHNESS and SPEED in cleaning away germ laden grime, supreme SAFETY, and *LOWEST COST PER WASH-UP!* You get every one of these important qualities with PAX . . . but *only* with PAX.*



PAX-LANO-SAV HEAVY DUTY granulated skin cleanser helps to give such complete protection from DERMATITIS and its consequent COSTS that many PAX CUSTOMERS say it really *costs nothing to use*. Make a test in your own plant and to help you to do this quickly send us \$1.00 and we will ship you one two pounds carton, transportation charges paid. You will be glad you did make this test!

*PAX is a registered trade name U.S. Pat. office of the G. H. Packwood Mfg. Co.

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Circle Item No. 31—Reader Service Card

National Safety News, December, 1957



the National Safety Council

A non-profit organization dedicated to accident prevention
Chartered by Act of Congress

Throughout its 43 year existence an important function of the National Safety Council has been compilation and dissemination of occupational safety services and materials. In preparing the materials shown in this Service Guide, the Council has attempted to incorporate the most modern teaching and interest-building methods; the most up-to-date technical information. It has utilized the talents of safety specialists, human relations experts, engineers, publicity and public relations people, and the vast resources offered by its membership of over 12,000 organizations, and individuals. Special tribute must be given to the more than 2500 volunteer workers who serve on policy making committees, advise on technical matters, and contribute much by way of help and information. The officers and members of the three committees most actively concerned with the materials shown in the Service Guide, are listed below.



U. S. Government Agencies—

All the items illustrated in this catalog (except Calendar shown on page C-59) have been approved for sale to Federal Agencies during the period of December 1, 1957 to November 30, 1958 by means of a contract between the Council and the Federal Supply Service of the General Services Administration.

Materials for Government use, including those to be paid out of local or imprest funds, must be requested on properly authorized purchase orders. Government employees may purchase any item for personal use.

In consideration of the Federal Supply Service contract, every agency of the Federal Government is entitled to participate in National Safety Council Sectional activities and contests, and the National Safety Congress, and to use the Council's consultation, engineering and library facilities without charge.



Other Council Service Guides

Special Service Guides are available for each of the 28 sections of the Industrial Conference. Service Guide 106.1 describes in detail the Complete Motor Transportation Service. A complete listing of services for Home, Farm, School and College and Traffic Safety is contained in the Catalog of Public Safety Materials. Copies sent on request.

Spanish and Portuguese Language Safety Services

Organizations employing Spanish or Portuguese speaking workers, or having subsidiaries in Latin America, may obtain many Spanish and Portuguese language technical and training materials from the Inter-American Safety Council. In addition, if desired by the member, the Inter-American Safety Council will supply Latin American subsidiaries with any of the National Safety Council's English language publications. Inquiries and orders should be addressed to: Inter-American Safety Council, 2 Rector Street, New York 6, N. Y.

NATIONAL SAFETY COUNCIL

425 N. Michigan Ave., Chicago 11, Ill.



Administrative Services Pages C-2 to 15

The technical and administrative materials shown on these pages provide the safety man with fundamental technical reference tools for his job. They cover the entire spectrum of occupational safety data; they offer authoritative guidance on employee training and supervisor development methods. Administrative publications are also ideal for winning the active support and participation of various levels of management. Check over the names in your management group, including personnel at branch plants, and keep them active in your safety program with a regular flow of timely, pertinent, safety information that whets their interest and wins their support to your accident prevention efforts.



Supervisor Training Pages C-16 to 24

Your supervisors and foremen are the key men in your safety program—the management people nearest the accident 'firing line'. They give most of the job instruction; they are responsible for the detection and correction of unsafe conditions and practices; the development of right attitudes toward safety, on the part of workers, is largely dependent upon them. The materials shown in the Supervisor Training section are among the most widely used by American industry to equip foremen to handle their safety responsibilities effectively. They teach your foremen the fundamentals of accident prevention as it relates to their jobs, they build interest in safety by showing how it boosts production and improves morale, they give your foremen a basic understanding of human relations and show how to use this knowledge on the job.



Employee Training Pages C-25 to 59

A well planned, continuous use of employee education publications and promotional material is a basic part of any safety program...for it is at the employees themselves that the bulk of the program is aimed. Frequent use of the materials shown in this section will add impact to your safety training—will help to stimulate and hold worker interest, shape sound attitudes and win increased cooperation. Most important of all, these materials are designed to do a job of reminding; to keep employees thinking and selling themselves on the benefits of doing things the safe way.

Alphabetical Index Page C-60

Conditions and Terms Page C-61



NATIONAL SAFETY COUNCIL

Services and

AWARD SERVICE

The Council evaluates each organization's occupational accident prevention record on a sound statistical basis. The Award of Honor, Award of Merit, Certificate of Commendation, and President's Letter are given in recognition of various degree of progress.



FREE SAFETY PUBLICITY FEATURES

These safety features have been prepared by the National Safety Council as a public service. Consisting of grin and thought producing cartoons on industrial, traffic and off-the-job safety, they are the work of well-known cartoonists and publicity men—experts at selling safety to the public. Mats or proof sheets of any of these cartoon series are furnished free. Of further use for industrial editors and safety men is the monthly, mimeographed EMPLOYEE PUBLICATIONS NEWSLETTER which is full of helpful ideas and suggestions on teaching and promoting safety. For full information, write to the Council's Public Information Department.

CONSULTATION SERVICE

The Council's staff of engineers, safety technicians and industrial hygienists are at your command by mail, wire or phone. They are equipped to give you unlimited assistance in planning and running a successful program of accident prevention.

SECTIONAL ACTIVITIES

Part of the income from Council dues and publications covers the costs involved in developing safety codes and safe operating procedures for your industry and other technical studies.

Intra-industry contests are also supported by dues. These sections sponsor annual contests: Aeronautical Industries, Chemical, Commercial Vehicle, Fertilizer, Food, Glass, Marine, Meat Packing, Metals, Pulp & Paper, Petroleum, Printing & Publishing, Public Utilities, Rubber, Tanning & Leather, Textile, Transit, and Wood Products. Any Council member or Federal installation qualified under rules established by the sponsoring section may compete by submitting a simple monthly report. Entrants compete only with organizations of their own size which have similar operations. Each month you receive a report of your standing. If you win, there's a handsome trophy that's yours to keep. Contest rules and report forms are sent on request.

NATIONAL SAFETY CONGRESS

The biggest annual event in safety—a week of talks and discussions by the country's leading safety authorities — exhibits of safety equipment. Chicago plays host to the 12,000 delegates in mid-October each year. You can send any number of representatives to learn about the latest safety developments and to exchange ideas with safety men in your industry.



SPEAKERS BUREAU

A file of both volunteer and professional speakers is maintained to place you in contact with persons qualified to give safety talks to any type of audience.

Activities

LIBRARY SERVICE

The world's biggest collection of safety information — thousands of publications, articles, photographs, illustrations on every conceivable safety subject—is yours to use. Material on any subject will be mailed to you on request.



STATISTICAL SERVICE

The information maintained on accident frequency and severity in 200 industries permits you to check your standing and the progress of your program against the records of other organizations doing similar work. Charts and tables are prepared on unsafe acts, agencies of injury and unsafe conditions that lead to accidents.

PERSONNEL BUREAU

The Council maintains a confidential file of safety men who are interested in changing jobs. If you need a safety director or engineer, the Council can help you find the right man for the job.

PUBLIC INFORMATION SERVICE

Through the channels of radio, television, newspapers and magazines the Council's Public Information Department puts a variety of safety messages before the American public. Each day, editorials, film sequences, and spoken messages, on a number of safety subjects reach into homes throughout the nation.



SAFETY TRAINING INSTITUTE

Since 1946, one of the most important activities of the Council's Industrial Department has been the holding, 5 times yearly, of the week-long **FUNDAMENTALS OF INDUSTRIAL SAFETY** Course. This course consists of a week of intensive but informal sessions held in attractive, comfortable classrooms under the guidance of safety specialists from the Council staff. It is the only course of its kind in existence, providing a sound foundation in accident prevention for men new to the safety field . . . as well as a practical and thorough 'brush-up' course for veteran safety men. The course covers the following subjects:

- safety inspections
- accident records and analysis
- basics of industrial accident prevention
- personal factors in safety
- getting the most out of council membership
- mechanical safeguarding
- industrial health and hazard controls
- electrical hazards
- the foreman's safety job
- how the safetyman can help the foreman
- maintaining interest in safety
- your safety problems
- showing of safety films
- organizing and operating a safety program
- fire prevention
- personal protective equipment
- methods engineering
- your place in community safety
- publicity in plant and community safety

The Safety Training Institute also offers an advanced course in **SAFETY MANAGEMENT TECHNIQUES**, consisting of classes in the administrative elements of the safety man's job—public speaking, writing, psychology, etc. The classes in this course are conducted by leading university professors as well as qualified Council staff members.

For additional information on both courses, write to the National Safety Council.

National SAFETY NEWS

A NEWS subscription brings far more than even 12 issues of the most authoritative publication in the occupational safety field. It also sends to each subscriber's desk a steady flow of samples and suggestions for effective use of the Council's many materials. While the NEWS itself is a real 'bread and butter' publication for the safety man, the wealth of materials provided with each subscription can be an effective safety selling tool, pumping the lifeblood of interest and action to the nerve centers of your organization.

a subscription offers 12 issues of the foremost magazine in safety . . .

Feature articles provide useful, technical information prepared by professional safety specialists—methods tested and proved by actual use. Each issue will give you scores of answers to many of your problems.

dozens of helpful features in each issue

Regular, monthly departments of special interest to management, medical directors, plant managers and other personnel who can help make your safety program a success.

8 special issues

In February, May, August, and November the NEWS includes the AMERICAN SOCIETY OF SAFETY ENGINEERS JOURNAL section — 20 pages of the latest technical safety data for engineers. In March the giant Safety Equipment Issue is your buying guide for the newest and best in safety equipment, while the July Fire Protection Issue provides information on fire prevention methods and equipment. In October the annual Safety Congress Issue covers the happenings at the year's biggest safety event. And December provides a big, useful planning issue, containing bound-in copies of the Occupational Safety Services Catalog and the Directory of Occupational Safety Posters.

a continuous flow of program helps

In addition to the catalogs, NEWS subscribers receive a continuous flood of sample training booklets, and materials accompanied by literature offering 'how-to-use' suggestions.

Arrange for personal subscriptions for yourself, for every key executive, and for all safety personnel in outlying plants and installations. National Safety News will be the heart of your safety program.

111.01 National Safety News Subscription (12 issues). 1 to 9 each: \$6.50; 10, \$6.00; 100, \$5.50; 1000, \$5.25. (Add \$1.00 for foreign, except Canada and Pan American Union). 111.03 National Safety News single issues, 1 to 9, each: \$1.00; 10, \$.90; 100, \$.85; 1000, \$.80.





3rd edition of the

ACCIDENT PREVENTION MANUAL

. . . is the biggest, most comprehensive collection of information yet offered to the safety man!

Recognized as the most authoritative and complete work existing on the subject of safe practices for industry, the ACCIDENT PREVENTION MANUAL is regarded by thousands of safety men as the foundation for any safety program. No other single source provides such a vast fund of practical information in so comprehensive a form—ready for instant use in solving problems, eliminating guesswork, furnishing facts.

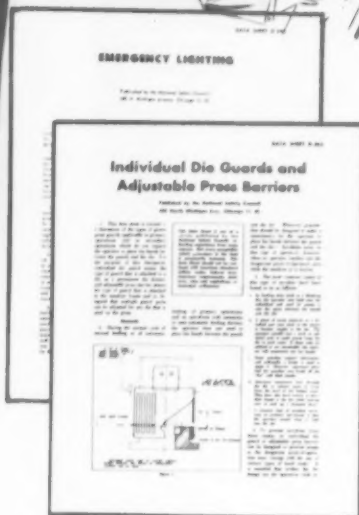
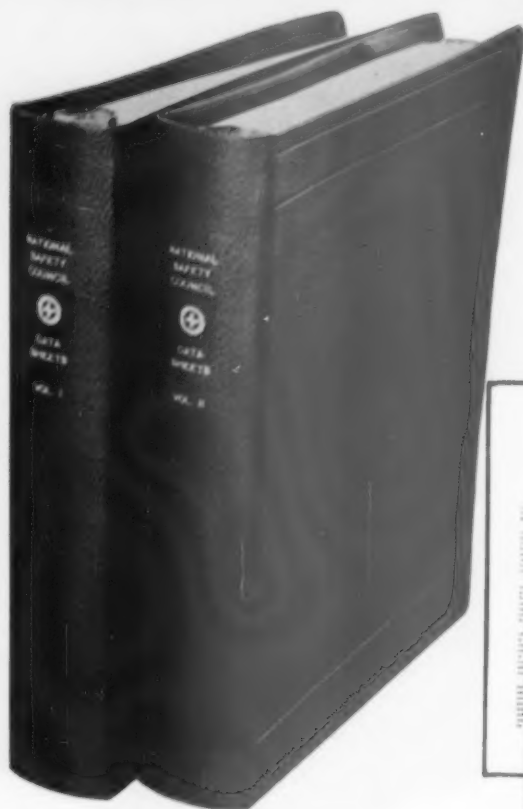
Only the resources of the National Safety Council could produce such a volume as this—literally an encyclopedia of safety, written and compiled by Council Safety Engineers and by experts from many phases of industry . . . reviewed and edited by hundreds of authorities from business, industry and government. 3 years in the making, this new, 3rd edition presents such a spectacular expansion of contents, that it renders all previous editions obsolete. 43 sections—1341 pages—filled with charts, illustrations, facts and figures on every common type of accident and health hazard . . . cross indexed to permit you to find any item of information in mere seconds.

The ACCIDENT PREVENTION MANUAL belongs on the desk of every man in your organization who has an administrative responsibility for your safety program . . . it belongs in the hands of every key member of your safety staff in every location. It is the Safety Engineer's handbook—the major reference book for any professional worker in industry accident prevention.

121.41. Each: 1 to 9, \$13.50; 10, \$12.75; 100, \$12.00.

THE 43, FACT-FILLED SECTIONS OF THE ACCIDENT PREVENTION MANUAL

1. Basics of Safety
2. Safety Organizations
3. Safety Committees
4. Removing the Hazard from the Job
5. Human Behavior and Industrial Safety
6. Safety Education
7. Maintaining Employee Interest in Safety
8. Public Relations and Publicity for Safety
9. Accident Records and Injury Rates
10. Accident Investigations, Analysis and Costs
11. Workmen's Compensation Insurance
12. Sources of Help for the Safety Man
13. Industrial Buildings and Plant Layout
14. Plant Construction and Maintenance
15. Boilers
16. Pressure Vessels
17. Refrigeration Equipment
18. Handling and Storage of Materials
19. Hoisting Apparatus and Conveyors
20. Elevators and Plant Railroads
21. Power Trucks and Tractors
22. Ropes, Chains and Slings
23. Principles of Guarding and Transmission Guards
24. Metal Forming and Shearing
25. Machine Tools
26. Woodworking Machinery
27. Guarding Equipment in Selected Industries
28. Local Exhaust Systems and Ventilating
29. Welding and Cutting
30. Hand and Portable Power Tools
31. Electrical Hazards
32. Flammable Liquids
33. Fire Prevention
34. Fire Extinguishment and Control
35. Emergency Action Plans
36. Personal Protective Equipment
37. Industrial Sanitation and Personnel Facilities
38. Medical, Nursing, and First-Aid Services in Industry
39. Industrial Hygiene
40. Industrial Poisons
41. Table of Chemical Hazards
42. Motorized Equipment
43. Safety Engineering Tables



Industrial DATA SHEETS

give you the facts
at your fingertips
when you need them

Data Sheets represent the combined thinking and know-how of safety specialists from numerous member companies—men who have met and solved the problems involved. Each sheet gives you the most authoritative, up-to-the-minute information on a specific subject—guards, chemicals, machines, metals; everything from A, acetic acid to Z, zirconium. Whatever the problem, you can rely on Data Sheets to give you the answers that will help you safeguard the lives and limbs of your workers.

They are available in three sets. A General Industry Set (Vol. I) of 109 subjects in a three ring binder; a Special Industries Set (Vol. II) of 85 subjects in a three ring binder; and a Chemical Set of 58 subjects in an envelope. Tabbed section dividers are available for alphabetical indexing of Data Sheets in binders. As new safety problems arise from new industrial techniques, authoritative Data Sheets are compiled and added to the list.

- ★ DATA SHEETS are the only source for highly specialized information
- ★ DATA SHEETS give you the right answers to specific problems
- ★ DATA SHEETS are constantly revised and brought up to date

You can provide a potent addition to your safety library with a complete set of industrial Data Sheets. And by giving your foremen and supervisors sets of the Data Sheets that apply to their jobs, you provide them with on the spot

solutions to a great many safety problems that may be encountered at any time. A complete list of Data Sheet subjects is shown on the opposite page.

123.01. Data Sheet Set (Volume I, General Industry Set, 109 subjects in binder). Each: \$18.70 in any quantity.

123.02. Data Sheet Set (Volume II, Special Industry Set, 85 subjects in binder). Each: \$18.70 in any quantity.

123.03. Data Sheet Set (Volume III, Chemical Set, 58 subjects in envelope). Each: \$9.00 in any quantity.

123.04. Data Sheets, any selection, each: 1 to 9, \$.35; 10, \$.25; 100, \$.20; 1000, \$.15.

123.05. Data Sheet Binder, each: \$3.50 in any quantity.

123.06. Data Sheet Tab Dividers (for Volumes I & II only), each: \$.80 in any quantity.

VOL. 1 GENERAL INDUSTRY SET 109 Subjects

| | |
|---|-------|
| Abrasive Blasting | D-433 |
| Abrasives, Coated | D-452 |
| Air Compressors and Receivers, Cleaning | D-379 |
| Air Powered Hand Tools | D-392 |
| Asphalt | D-215 |
| Automatic Hoisting Equipment | D-437 |
| Babbitt Bearings | D-417 |
| Baling Presses | D-421 |
| Barricades & Warning Devices for Highway Construction Work | D-239 |
| Blasting, Stray Currents in Electric | D-289 |
| Boring Mills, Horizontal Metal | D-269 |
| Boring Mills, Vertical Metal | D-347 |
| Bulldozers, Motor Graders and Scrapers | D-256 |
| Capacitors | D-404 |
| Cathode Ray Tubes | D-240 |
| Cleaning Exterior Walls of Buildings by Sandblasting or Steamblasting | D-252 |
| Cleaning Small Containers That Have Held Combustibles | D-432 |
| Cleaning with Hot Water and Steam | D-238 |
| Color in Industry | D-219 |
| Concrete Mixers and Pavers | D-255 |
| Cords & Fittings, Electric | D-385 |
| Cords, Low Voltage Extension, & Systems | D-316 |
| Crane Boom Stops | D-412 |
| De-Greasing: Removing Oil and Grease from Metal Parts | D-232 |
| DDT Insecticides, Use of | D-303 |
| Die Guards, Individual and Adjustable Press Barriers | D-365 |
| Dies, Setting Up and Removing from Power Presses | D-211 |
| Dock Plates and Gangplanks | D-318 |
| Drill Presses, Metal Working | D-335 |
| Drums, Cleaning, Which Have Held Flammable Substances | D-349 |
| Electromagnets Used with Crane Hoists | D-359 |
| Emergency Lighting | D-248 |
| Excavation, Trench | D-254 |
| Exhaust Ventilating Systems, Instruments for Testing | D-431 |
| Extension Cords, Low Voltage | D-316 |
| Fire Retardant Treatment for Wood | D-372 |
| Fire Retardant Treatment for Fabrics | D-220 |
| Firearms for Plant Protection | D-413 |
| First Aid Kits, Unit | D-202 |
| Flexible Shaft Tools | D-386 |
| Floors, Slippery | D-286 |
| Freight-Car Doors | D-374 |
| Gantry Trucks | D-257 |
| Graders, Motor, Bulldozers & Scrapers | D-256 |
| Grounding Electric Shovels, Cranes and Other Mobile Equipment | D-287 |
| Grounding Portable Electric Equipment | D-299 |
| Guillotine Cutters, Power | D-298 |
| Hammers, Steam Drop | D-450 |
| Hard Hats | D-425 |
| Heat Cramps (And Use of Salt) | D-247 |
| Heating, Radio Frequency | D-319 |
| Highways, Municipal and Industrial Plant Roadways, Center Striping of | D-221 |
| Hydro-Extractors | D-337 |
| Impact Tools, Safe-Ending | D-414 |
| Jointers, Wood | D-280 |
| Lathes, Engine | D-264 |
| Lathes, Wood Turning | D-253 |
| Local Exhaust Systems, Checking Performance of | D-428 |
| Lumber Handling and Piling | D-345 |
| Machinery and Electric Motors, Cleaning | D-285 |
| Milling Machines, Metalworking | D-364 |
| Nitrate-Nitrite Salt Baths for Heat Treating | D-270 |
| Nuclear Energy, Sources of Information | D-446 |
| Planers, Metal | D-383 |
| Plant Parking Lots and Public Loading Points | D-451 |
| Plumbers' Furnaces and Gasoline Blow Torches | D-300 |
| Poison Ivy, Poison Oak and Poison Sumac | D-304 |
| Poles, Setting or Removing In or Near Energized High Voltage Conductors | D-348 |
| Portable A.C. High Voltage Insulation Test Sets | D-393 |
| Powder-Actuated Hand Tools | D-236 |
| Power Shovels, Draglines and Similar Equipment, Operation of | D-271 |
| Press Barriers—See Die Guards | |
| Press Brakes | D-419 |
| Power Presses, Inspection and Maintenance of | D-224 |
| Punch Presses, Handling Finished Pieces at | D-419 |
| Punch Presses, Scrap, Handling | D-395 |
| Radiant Heat Control | D-381 |
| Reflecting and Luminescent Materials | D-245 |
| Respiratory Protective Equipment | D-444 |

VOL. 2 SPECIAL INDUSTRY SET 85 Subjects

| | |
|--|-------|
| Acid Plant, The | D-210 |
| Air Terminal Vehicular Traffic Safety Guide | D-330 |
| Aircraft Ground Fuel Servicing | |
| Fire Hazards | D-323 |
| Airplanes, Electrical Grounding of | D-294 |
| Analysis of Injury Experience of a Large Printing Plant | D-205 |
| Atmospheric Conditions in Underground Structures | D-350 |
| Automotive Equipment Operators on Airport Ramps | D-327 |
| Blasting from Electric Power Circuits | D-293 |
| Boring Machines, Wood, and Hollow Chisel Mortisers | D-228 |
| Bottles and Glass, Broken | D-355 |
| Bridge Painting | D-296 |
| Brush Cutting Tools | D-427 |
| Calendar Roll Bites, Guarding of | D-449 |
| Calendar Rolls, Handling | D-403 |
| Cards, Cotton | D-227 |
| Cards, Wool and Worsted | D-295 |
| Caustic, Liquor Room, The | D-214 |
| Churn Drills, Drilling Blast Holes Safely with | D-200 |
| Coars, Cutting Paper | D-422 |
| Corrugators | D-356 |
| Cutting and Loading Machines in Coal Mines | D-420 |
| Die-Casting Machines | D-266 |
| Digesters, Pulp Mill | D-340 |
| Drilling in Mines | D-273 |
| Drinking Water on Construction Jobs | D-399 |
| Drop Hammers, Rope | D-217 |
| Drop Hammers and Drop Forges | D-416 |
| Electroplating | D-302 |
| Explosive Splitting Wedges or Guns | D-321 |
| First Aid Facilities, Coal Mines | D-375 |
| Fuses and Torpedoes, Storage and Handling of | D-358 |
| Gas Transmission Pipeline, Reconditioning of | D-430 |
| Garnetting Machines | D-366 |
| Gear Hobbing Machines | D-362 |
| High Pressure Gate and Plug Valves, Maintenance of | D-440 |
| Jackhammers in Quarries | D-324 |
| Jet Tapping of Open Hearth Furnaces | D-394 |
| Knives, Hand | D-369 |
| Ladings, Thawing Frozen | D-233 |
| Locomotive Appurtenances, Handling | D-222 |
| Locomotives in Coal Mines, Safety Specifications for | D-262 |
| Log Skidding by Tractor | D-377 |
| Looms, Cotton | D-279 |
| Lubricants, Underground Storage in Coal Mines | D-288 |
| Man Lifts | D-401 |
| Metallizing | D-357 |
| Mines, Prevention of Falls Down, Openings in | D-387 |
| Mines, Safe Operation of Rocker-Type Loading Machines in | D-209 |
| Oxygen Lances | D-360 |
| Rope, Manila, Slings, Safe Use of | D-259 |
| Rope, Sisal | D-261 |
| Rubber Cement, Spreading | D-334 |
| Sanders, Wood | D-338 |
| Saws, Band, Woodworking | D-235 |
| Saws, Cross-Cut Guards | D-226 |
| Saws, Rip Guards | D-249 |
| Saws, Electric Hand | D-344 |
| Saws, Metal (Cold) | D-322 |
| Saws, Portable Power Chain | D-320 |
| Saws, Overhead Swing Cut-Off | D-277 |
| Saw, Radial, The | D-353 |
| Shapers, Metal | D-216 |
| Shapers, Wood | D-333 |
| Shears, Metal Squaring | D-338 |
| Sheet Metal, Handling & Storage of | D-434 |
| Skids | D-260 |
| Skull Crackers (Yard Drops) | D-288 |
| Slings, Wire Rope, Safe Loads for | D-380 |
| Snow and Ice Removal in Industry | D-402 |
| Soldering and Brazing, Hand | D-445 |
| Spiders, Black Widow | D-258 |
| Storage Batteries | D-248 |
| Strapping, Steel, Flat or Round | D-315 |
| Switches, Electric, Methods of Locking Out | D-237 |
| Tick Bites | D-228 |
| Tree Trimming | D-244 |
| Trucks, Powered Hand | D-317 |
| Tumbling Barrels | D-301 |
| Vapor Degreasers | D-429 |
| Watchman Safety | D-212 |
| Winches, Power, Truck Mounted | D-441 |
| Wires and Cables, Insulated, High Voltage Testing | D-368 |

| | |
|---|-------|
| Paper Bags, Manufacturing Standard | D-339 |
| Paper Machines | D-290 |
| Paper Tube Winders | D-354 |
| Pickers, Cotton | D-276 |
| Pickers, Wool | D-265 |
| Planers, Wood, Power Feed | D-225 |
| Poles, Setting or Removing In or Near Energized High Voltage Conductors | D-348 |
| Pole-Top Resuscitation | D-376 |
| Presses, Kick-Type | D-383 |
| Pressure Vessels, Unfired, and Piping in Pulp Mills | D-243 |
| Printer Slitters | D-348 |
| Pulpwood, Unloading at the Mill | D-274 |
| Radio Transmitters | D-439 |
| Railroad Car Wheels, Changing Out | D-242 |
| Reels, Drum Type | D-278 |
| Rock, Falling or Sliding, in Quarries | D-352 |
| Rock or Ore, Detecting, Loose | D-378 |
| Rock, Testing, Removing and Supporting Loose | D-272 |
| Salamanders | D-400 |
| Scraping Operation in Mines, Safety in | D-201 |
| Shells and Cores, Handling | D-381 |
| Shears, Alligator | D-213 |
| Shears, Cloth | D-291 |
| Shuttle Car Operation | D-336 |
| Sidewalk Sheds | D-368 |
| Slashers and Auxiliaries, Cotton | D-223 |
| Slotters, Metal | D-263 |
| Slug Casting Machines | D-424 |
| Stickers, Molders and Matchers, Wood | D-384 |
| Stranding of Communication and Power Cable | D-326 |
| Tire and Tube Curing | D-305 |
| Tools for Manual Handling of Pulpwood and Logs | D-292 |
| Trucks for Mines, Quarries and Construction, Motor | D-330 |
| Windups and Letoffs | D-281 |
| Wood Rooms | D-423 |
| Zirconium | D-382 |

CHEMICAL SET 58 Subjects

| | |
|--|-------|
| Acetic Acid | D-410 |
| Acetone | D-398 |
| Acid, Removing from Carboys | D-390 |
| Acrolein | D-436 |
| Adipic Acid | D-438 |
| Amyl Acetate | D-208 |
| Anhydrous Aluminum Chloride | D-435 |
| Anhydrous Ammonia | D-251 |
| Aniline | D-409 |
| Antimony and Its Compounds | D-408 |
| Arsenic and Its Compounds | D-297 |
| Benzene (Benzol) | D-308 |
| Bleaching Compounds, Textile | D-343 |
| Bromine | D-313 |
| Cadmium | D-312 |
| Carbon Bisulphide (Carbon Disulphide) | D-341 |
| Carbon Monoxide | D-415 |
| Carbon Tetrachloride | D-331 |
| Caustic Soda (Sodium Hydroxide) | D-373 |
| Chlorates | D-371 |
| Chlorine | D-207 |
| Dry Ice (CO ₂) | D-397 |
| Ethyl Alcohol, Industrial | D-391 |
| Ethyl Ether (Diethyl Oxide) | D-396 |
| Ethylene Dichloride | D-350 |
| Ferrosilicon | D-352 |
| Formaldehyde | D-342 |
| Fulminate of Mercury | D-309 |
| Hydrogen Sulphide | D-284 |
| Inorganic Fluorides | D-442 |
| Lead | D-443 |
| Lime | D-241 |
| Liquid Oxygen | D-283 |
| Magnesium | D-428 |
| Manganese | D-306 |
| Mercury | D-203 |
| Metallic Sodium | D-231 |
| Methanol | D-407 |
| Naphthalene (Crude and Refined) C ₁₀ H ₈ | D-370 |
| Oxalic Acid | D-406 |
| Oxides of Nitrogen, The | D-206 |
| Perchloric Acid | D-311 |
| Phenol (Carbolic Acid) | D-405 |
| Phosphorus (White) | D-282 |
| Picric Acid | D-351 |
| Piping—See Pressure Vessels | |
| Pyridine | D-310 |
| Radialotopes, Introduction to | D-329 |
| Sulfur, Handling and Storage of | D-275 |
| Sulphuric Acid | D-325 |
| Tetryl | D-218 |
| Trichloroethane Methyl Chloroform | D-456 |
| Trichloroethylene | D-389 |
| Trinitrotoluene (TNT) | D-314 |
| Turpentine | D-367 |
| Xylene and Toluene | D-204 |
| Zinc and Zinc Oxide | D-287 |

Build-in SAFETY—quickly . . . easily . . . inexpensively

Detail Sheets

When the need arises for the immediate construction of a scaffold, ladder, tool rack, safety device, or any temporary structure which has to be built on the job—Detail Sheets save time, money, and help you do a sound job of safety engineering in getting them built. Any competent workman can easily follow these clearcut, working drawings. They sweep away all guesswork, need for lengthy instructions, sloppy workmanship that can cause accidents. With Detail Sheets, you'll get it built faster, cheaper, better. And anything built from a Detail Sheet has safety built-in.

8½" x 11" in size, Detail Sheets are available singly, or as a complete set of 148 drawings in a sturdy 3 ring binder. The full list of subjects available is shown below.

124.01 Detail Sheets, Complete Set in 3 ring binder: 1 to 9, \$14.50 each 10, \$14.00 each.

124.04 Individual Detail Sheets, any selection: 1 to 9, \$.25 each; 10, \$.15 each; 100, \$.10 each; 1000, \$.09 each.

124.05 Binder, Detail Sheet: \$2.85 each.



| | |
|---|-----|
| Acid Measuring, Diluting and Transfer Device | 112 |
| Air Hammer Safety Device | 155 |
| Air Hose Coupling Hooks | 55 |
| Alligator Shear, Chip Guard for Blade of | 140 |
| Autoclave Safety Device, Quick Opening | 139 |
| Barrel Skids, Adjustable Stand | 32 |
| Barricades, Fence | 22 |
| Barricades, Horse | 21 |
| Bin Safety Platform | 144 |
| Blue Tag Safety Board for Railroad Diesel Shops | 149 |
| Bonding Clamps for Pipe Lines | 118 |
| Bottle Carrier for Corrosive Liquids | 71 |
| Can Opener, Pneumatic | 30 |
| Chains—Safety, for Locomotives | 66 |
| Chisel Bar Holder | 64 |
| Circuit for Dead Man Control on Mine Locomotives | 80 |
| Combination Hoist Control Handle | 161 |
| Conveyor, Belt, Carrying Rock and Similar Products, Dust Control for | 138 |
| Conveyors, Safety Devices at Pinch Points on Power Driven | 77 |
| Crane Wheel Guard | 47 |
| Crane Rail Stop | 46 |
| Crane Rail Stop—Temporary | 45 |
| Cylinder Head Lifter—Horizontal Engine | 117 |
| Cylinders, Safety Clamps for K-Type Oxygen Cylinder and WK-Type Acetylene | 124 |
| Dead Man Control for Manually Operated Shot Blast Cabinet | 162 |
| Dolly, Hydraulic Lift-Type | 13 |
| Dolly for Moving Heavy Machinery | 58 |
| Drinking Water Cooler | 10 |
| Electrical Test Unit for Receptacles | 123 |
| Equipment Cart for Roof Bolting | 109 |
| Feather Board | 146 |
| Feed Roll Guard for Langston Printer-Slotter | 127 |
| Finn Hook | 148 |
| Fire Extinguisher Washer | 138 |
| Fire Hose Holder | 96 |
| First-Aid Station, Portable | 18 |
| Floodlight Tower, Portable | 41 |
| Gantry (Straddle) Truck Drive Chain | 132 |
| Gate, Plant Railroad Crossing | 99 |
| Glass—Broken, Disposal Cans | 52 |
| Glass—Broken, Disposal Unit | 51 |
| Glass Shield for Test Stands | 78 |
| Gondola Car-End Door Emergency Latch | 142 |
| Guard, Veneer Clipper | 143 |
| Hatch Cover Fastener for Bulk Cars | 84 |
| Hooks—Safety, for Iron Workers | 44 |
| Hookup for Main Line Switch Signals | 110 |
| Impact Test for Heat Treated Lens | 98 |

| | |
|--|-----|
| Infirmity for Construction Project | 17 |
| Inspection Reel for Line Hose | 157 |
| Insulated Hoist Hook for Welding | 165 |
| Jackhammer Devices for Starting Holes | 42 |
| Jointer Guard | 103 |
| Jumbo Poster Billboard | 114 |
| Jumbo Poster Billboard | 115 |
| Ladder, Double Cleat | 9 |
| Ladder, Single Cleat | 8 |
| Lever on Carton Punching Press, Safety | 87 |
| Limit Switch for Pedestrian Entrance, Power Operated Doors | 164 |
| Lock Rim Holding Device | 120 |
| Lumber, Foundation for Stacking | 111 |
| Magazine, Portable | 28 |
| Magnesium Safety Board | 121 |
| Mine Car Dumping and Chute Bar | 83 |
| Mist Projector | 104 |
| Multiple Lockout Safety Clip for Switches | 158 |
| Narrow Gauge Rail Stop Assembly | 166 |
| Nip Guard for Ink Mill | 150 |
| Paper Calendars, Roller Tool for Threading | 62 |
| Paper Roll Skinners | 78 |
| Pavers, Concrete, Safety Guards on | 135 |
| Pedestrian Guard Rail | 65 |
| Pit Guard | 76 |
| Pole Moving Attachment | 160 |
| Power Brake Treadle Stop | 56 |
| Printing Presses, Cylinder, Safety Toe Guard for Flat Bed Miehle | 131 |
| Quarry Safety Shelter | 133 |
| Railroad Track Flag Standard | 168 |
| Rail Brake, Sliding | 68 |
| Reel Guard on Felt or Paper Machine | 92 |
| Reel Spools, Machined Ends of | 128 |
| Release for Walk-In Refrigerator | 167 |
| Roll, Master, Safety Release | 137 |
| Roof Bolting Sections in Mines, Wire Hanger | 106 |
| Roof Sections in Mines, Pipe Support | 108 |
| Safety Coupling Pin | 154 |
| Safety Chuck Wrench | 147 |
| Saw Band, Guard for Point of Operation | 101 |
| Saw Circular, Guard | 25 |
| Scaffold, Bricklayers' Square | 35 |
| Scaffold Horses, Heavy Trades | 2 |
| Scaffold Horses, Light Trades | 1 |
| Scaffold Pole, Heavy Duty | 12 |
| Scaffold Pole, Heavy Duty Independent | 7 |
| Scaffold Pole, Light Duty Independent | 6 |
| Scaffold Pole, Single for Light Duty | 11 |
| Scaffolds, Rivet | 34 |
| Scaffolds, Roofing | 23 |
| Sheave Block, Well Drill, Lubricating System for a | 134 |
| Sheave Grinding Arrangement | 116 |
| Shift Bar Safety Lock | 85 |

| | |
|--|-----|
| Shuttle Guard | 58 |
| Sidewalk Hatch, Cover Brace | 63 |
| Sidewalk Shed | 28 |
| Standard, Railroad Track Flag | 168 |
| Steps for Man-Haul Trucks | 159 |
| Stopper, Cover Over Handle | 93 |
| Stopper, Handle for | 94 |
| Stopper in Mines, Hand Guard for Short | 107 |
| Stretchers, Mobile | 86 |
| Switch, Oil, Model for Demonstration of | 130 |
| Switches, Safety Handle for Operating, etc. | 73 |
| Tank Car Dome Guard Rails | 156 |
| Tank Car Loading Platform | 151 |
| Tank Car Working Platform | 152 |
| Tire Safety Rack | 3 |
| Tongs—Safety, For Handling High Voltage Cable | 33 |
| Tools Racks, Safety | 24 |
| Toolhouse—Section, Interior Arrangement | 54 |
| Tow Bar, Heavy Duty | 143 |
| Tractors, Canopy for TD9 and D4 | 126 |
| Trimmer, Safety Stop on | 122 |
| Tripping Device, Opposite Side, for Bunk Stakes | 141 |
| Trucks—Dump, Cab Protector | 19 |
| Trucks, Dump, Safety Block | 5 |
| Trucks—Dump, Safety Prop | 20 |
| Trucks—Hand, Attachment for Handling Dock Plates | 60 |
| Trucks—Hand, Device for Loading Calendar Rolls | 119 |
| Trucks—Lift, Overhead Guard | 90 |
| Trucks—Lift, Safety Rack | 72 |
| Trucks—Seats, Hinged for Pickup or Stake | 16 |
| Trucks—Seats, Planks for Stake Body | 15 |
| Trucks—Bench Seats, Removable for Pickup Trucks | 4 |
| Trucks—Seats, Removable Plank for Pickup | 14 |
| Valves—Steam, Control | 53 |
| Valves, Testing Relief | 91 |
| Washer for Overhead Lamp Reflectors | 163 |
| Welding Screen | 37 |
| Welding Screen & Rod Supply Box | 31 |
| Welding Shield, Pipe | 57 |
| Welding Table and Safety "V" Block | 38 |
| Welding Truck, Single Cylinder | 40 |
| Welding Truck, Two Cylinder | 39 |
| Wheel Chock for Heavy Duty Truck | 153 |
| Wheel Jack | 169 |
| Winder—Cameron, Nip Guard | 69 |
| Winder Guard | 100 |
| Winder Guards, Tow | 89 |
| Winder Shaft Dolly | 70 |
| Work Stand, Portable | 75 |
| Wrap Roll, Arm Extension for | 129 |

SAFE PRACTICES AND HEALTH PRACTICES PAMPHLETS

These pamphlets are detailed studies of important accident and health problems. Their number has been reduced over the years, as subjects were included in the new edition of the Accident Prevention Manual. Those remaining are on subjects not fully covered in the latest Manual.

The pamphlets are 8 to 12 pages, 8 1/2" x 11" in size. There are two sets: the General Safe Practices and Health Practices set consisting of 16 pamphlets in a binder; and the Industrial Safety Series consisting of 26 pamphlets in a binder. Pamphlets may be purchased individually or as sets.

122.01 General Set (16 Safe Practices & Health Practices Pamphlets in 3 ring binder): 1 to 9, \$9.50 each; 10, \$8.00 each.

122.04 Individual Safe Practices and Health Practices Pamphlets, any selection: 1 to 9, each \$.55; 10, \$.45 each; 100, \$.40 each; 1000, \$.38 each.

122.06 Industrial Safety Series Pamphlets (26 subjects in 3 ring binder): 1 to 9, each; \$8.50; 10, \$8.00 each.

122.07 Individual Industrial Safety Series Pamphlets, any selection: 1 to 9, each; \$.55; 10, \$.45; 100, \$.40 each; 1000, \$.38.

Please order pamphlets by stock number and individual pamphlet number. For example, 122.07-AU.1 is the proper designation for the Industrial Safety Series Pamphlet on Heat Treating.

Safe Practices Pamphlets

- 1 Ladders
- 12 Scaffolds
- 21 Industrial Accident Records and Analysis
- 44 Cutting Oils and Emulsions
- 60 Chemical Laboratories
- 75 Safety Inspections
- 80 Industrial Safety Rules
- 91 Spray Coating
- 93 Topics for Safety Meetings
- 95 Compressed Gases
- 102 Off the Job Accidents
- 108 Office Safety

Health Practice Pamphlets

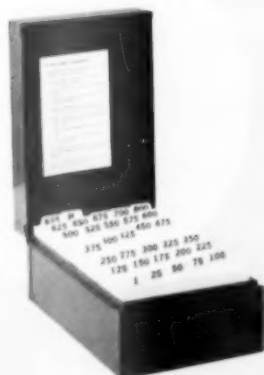
- 4 Industrial Dust
- 10 Skin Affections

- 13 Physical Defects
- 16 Physical Medicine in Industry

Industrial Safety Series Pamphlets

- AU. 1 Heat Treating
- Chem. 1 Chemical Pipe Lines and Tanks
- Chem. 2 Fume Poisoning from Nitric and Mixed Acids
- Chem. 3 Chemical Burns
- Chem. 5 Pyroxylin Lacquer Manufacture
- Chem. 6 Cyanide Compounds
- Chem. 7 Industrial Waste Disposal
- Con. 1 Building Construction
- Con. 4 Pile Driving
- Con. 5 Demolition of Structures
- Food 6 Distilleries—Grain Handling and Milling
- Food 7 Distilleries—Mashing, Fermenting, Distilling, Stillage Drying

- Food 8 Distilleries—Warehousing and Bottling
- Hy. 1 State Highway Employees
- Mun. 1 Public Employees
- PP. 1 Paper and Pulp Mills
- PP. 2 Paper Box Manufacturing
- PP. 3 Pulpwood Logging
- PU 1 Protecting Public Utility Employees on Streets and Highways
- PU 3 Lineman's Rubber Protective Equipment
- PU 4 Handling of Poles
- RR 1 Railroad Track Cars
- RU 1 Compounding materials used in the Rubber Industry
- RU 2 Vulcanizers and Devulcanizers
- Tex. 1 Cotton Mills
- CE 1 Mercantile Establishments



Safety Instruction Cards

These 3" x 5" cards are concise check lists of safe practices and accepted methods of performing specific operations. They are invaluable for preparing job analyses, writing speeches and articles, planning safety meetings.

The Complete Set consists of 768 cards including general industrial, special industry, traffic, motor transportation and off-the-job subjects. The industrial Set consists of 470 Basic Industrial cards plus the Special Industries cards which relate to the purchaser's industry. Either set is available with a two-way index, a set of numerical dividers, and a metal file case. Any selection of cards may be ordered in any quantity.

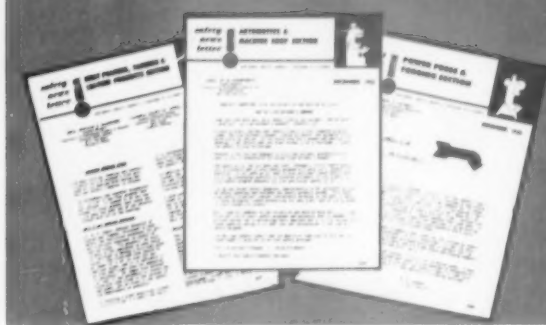
191.01 Safety Instruction Cards, Complete Set, with case and guides: 1 to 9, each: \$14.50; 10, \$13.90; 100, \$13.30.

191.02 Safety Instruction Cards, Industrial Set, with case and guides: 1 to 9, each: \$9.50; 10, \$8.85; 100, \$8.25.

191.04 Individual Safety Instruction Cards, any selection: 1 to 9, each \$.15; 10, \$.055; 100, \$.023; 1000, \$.02.

191.06 Safety Instruction Card Case and Guides only: 1 to 9, each: \$2.50; 10, \$2.40; 100, \$2.30.

NEWSLETTERS and CURRENT SAFETY TOPICS



NEWSLETTERS are the safety idea swap shops for industries with specialized problems. They provide you with information on your own particular operations—new methods and equipment, recent technical developments, ideas for safety promotions and gimmicks, and news of safety projects and meetings in your industry.

NEWSLETTERS can be of particular help if your organization has diversified operations and branch locations. You can select NEWSLETTERS that cover your operations and have subscriptions addressed directly to personnel at each location—nurses, plant managers, training personnel, maintenance foremen, and safety engineers.

NEWSLETTERS average four pages in length and are 8 1/2" x 10 7/8" in size. They are published monthly.

With each NEWSLETTER subscription you automati-

cally receive a volume of CURRENT SAFETY TOPICS pertaining to your industry. These are transactions of the National Safety Congress—the talks, papers, the exchanges of ideas by speakers and panel members who participate in the Congress. Newsletter subscriptions ordered by members and government agencies constitute enrollment in a Section. That is, if you are a member of the Council, your membership automatically provides for enrollment in one Council Section; by subscribing to one or more Newsletters you can enroll in additional Sections. See page C-2 for information on Sectional activities.

Complete sets (30 volumes) of CURRENT SAFETY TOPICS may be ordered, as well as any single volume. Write for prices and additional information.

Newsletters, annual subscription (including appropriate volume of Current Safety Topics): 1 to 9, \$2.00 each; 10, \$1.70; 100, \$1.60.

INDUSTRIAL NEWSLETTERS

- 112.01-1 Aeronautical Industries
- 112.01-2 Air Transport
- 112.01-3 Automotive & Machine Shop
- 112.01-4 Cement & Quarry & Mineral Aggregates
- 112.01-5 Chemical
- 112.01-6 Coal Mining
- 112.01-7 Construction
- 112.01-8 Electrical Equipment
- 112.01-9 Food
- 112.01-10 Fertilizer
- 112.01-11 Glass & Ceramics
- 112.01-12 Marine
- 112.01-13 Meat Packing,
Tanning & Leather Products
- 112.01-14 Metals
- 112.01-15 Mining (other than Coal)
- 112.01-16 Occupational Health Nursing

- 112.01-17 Petroleum
- 112.01-18 Power Press & Forging
- 112.01-19 Printing & Publishing
- 112.01-20 Public Employee
- 112.01-21 Public Utilities
- 112.01-22 Pulp & Paper
- 112.01-23 Railroad
- 112.01-24 Rubber
- 112.01-25 Textile
- 112.01-27 Trades & Services
(Mercantile & Warehousing)
- 112.01-28 Trades & Services (Restaurant-Hotel)
- 112.01-30 Wood Products
- 112.01-31 Hospital

MOTOR TRANSPORTATION NEWSLETTERS

- 112.01-29 Transit
- 212.01 Commercial Vehicle

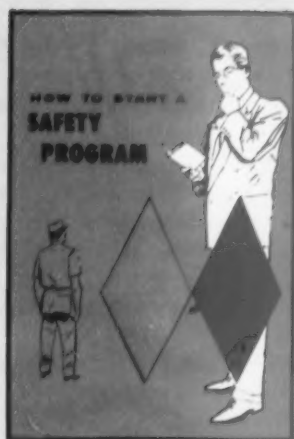
SAFETYMAN'S LIBRARY

A Complete library of the Council's most frequently needed reference publications. Included are the 1341 page Accident Prevention Manual; the set of General Industrial Data Sheets in a binder; the full set of Detail Sheets in a binder; complete set of the General Safe Practices and Health Practices Pamphlets; and the complete set of Safety Instruction Cards in a file case.

129.91 Safetyman's Library, each: \$65.00

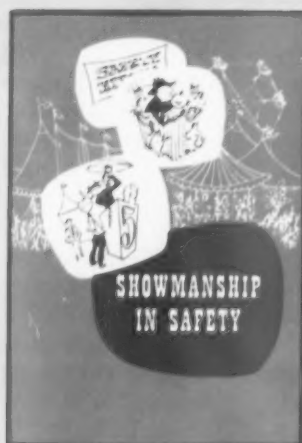






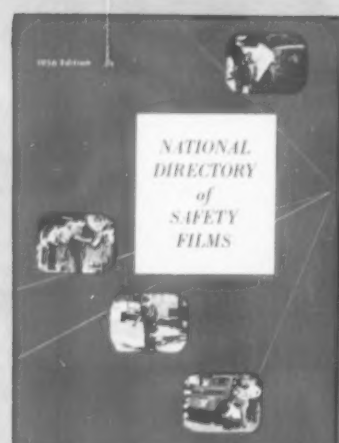
How to Start a Safety Program

Defines the organization of a simple and economical safety program—not the engineering details but the management of an efficient program. Describes what to do first to control such problems as health, personal injuries. Applicable to any business enterprise, regardless of size. 48 pages, 4½" x 7".
129.86. Each: 1 to 9, \$.70; 10, \$.50; 100, \$.40; 1000, \$.35.



Showmanship in Safety

Here are 160 of the brightest, most unusual and most successful safety promotional ideas of the last 40 years. Old or new, you're bound to find loads of attention-getting gimmicks for publicity stunts, pepping up safety meetings, getting bulletin boards looked at. 64 pages, 5½" x 8".
129.83. Each: 1 to 9, \$1.40; 10, \$1.15; 100, \$1.05; 1000, \$1.00.



National Directory of Safety Films

A comprehensive listing of 1200 motion pictures and slidefilms, both sound and silent, for safety education within business and industry, on the farm, in homes, and on the streets and highways. Sources and bases of availability shown for each film. 68 pages, 8" x 11". Issued June 1956.
029.01. Each: 1 to 9, \$1.00; 10, \$.90; 100, \$.80; 1000, \$.75.



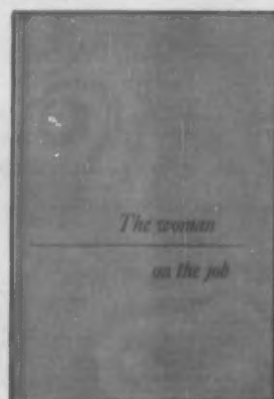
Jig and Fixture Design for Woodworking Safety

A comprehensive book for supervisors dealing with all types of woodworking jigs and fixtures. Complete description of the various kinds of jigs and fixtures with precise instructions on how to build and use them. 61 drawings. 104 pages, 8½" x 11".
129.97. Each: 1 to 9, \$2.00; 10, \$1.70; 100, \$1.55; 1000, \$1.45.



Safety Devices and Ideas

Two 48 page books which illustrate and describe more than 200 tested, easy to make safety devices, most of which are not commercially available. Illustrated 8½" x 11".
Book 1, 129.85. Each: 1 to 9, \$1.40; 10, \$1.15; 100, \$1.05; 1000, \$1.00.
Book 2, 129.86. Each: 1 to 9, \$1.40; 10, \$1.15; 100, \$1.05; 1000, \$1.00.



The Woman on the Job

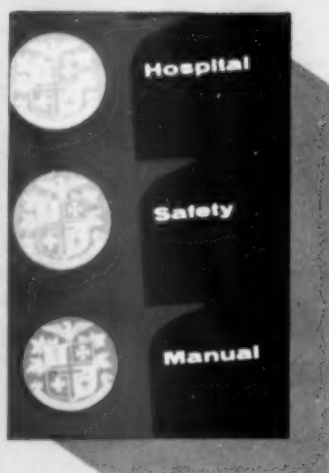
A survey of the health and safety problems of women in industry. Real help to personnel and training directors as well as safety men. Covers accidents and occupational diseases, physical problems, job clothing, placement, training and supervision. Hard cover, with illustrations. 6" x 9".
129.84. Each: 1 to 9, \$1.50; 10, \$1.20; 100, \$1.00; 1000, \$.90.



Manual of Accident Prevention in Construction

Especially written by the Associated General Contractors of America for construction superintendents and foremen. Illustrates the safe way of performing construction jobs, emphasizes the costly results of unsafe practices. 258 pages, 6 1/4" x 9 1/4".

129.46. Each: \$3.35 any quantity.



Hospital Safety Manual

A guide for hospital administrators and department heads to help in the prevention of injury and occupational disease to persons and damage to property through accidents and fires in hospitals and institutions. Stresses employee and patient health and safety. 116 pages, 6" x 9".

129.55. Each: 1 to 9, \$2.25; 10, \$1.90; 100, \$1.70.



Safety Manual for the Graphic Arts Industry

The first complete, authoritative manual for the Graphic Arts Industry—representing the best safety know-how available. Shows how to stop accidents, gives the how to, why's, and results of successful safety programs in the printing industry. "Must" reading for plant owners, managers, foremen. 96 pages, 6" x 9".

129.82. Each: \$2.80 any quantity.



Fleet Safety Manual

Shows how to organize and conduct an effective safety program. It consists of eight comprehensive parts and supplementary material in a rich maroon loose-leaf binder. Discussions of such problems as: selection of drivers, accident reporting and records, and garage and repair shop safety.

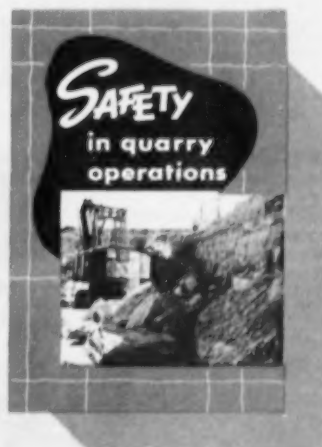
221.21. Each: \$9.75 any quantity.



Safety Manual for Marine Oil-Fired Watertube Boilers

Completely covers general operation and maintenance, from placing the boiler in service to laying up boilers. Emphasis is on the principles of safety involved in operation and repair specific safe practices and fire prevention. Illustrated. 72 pages, 6" x 9".

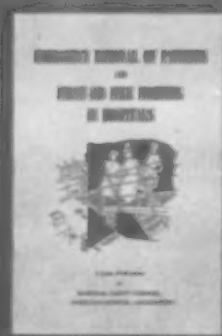
129.66. Each: 1 to 9, \$1.70; 10, \$1.45; 100, \$1.30; 1000, \$1.25.



Safety in Quarry Operations

Basic information for setting up and operating an effective safety program. Sections on safety organization and accident investigations, technical discussions on drilling, safe storage and use of explosives, quarry railways, truck transportation in quarries, and use of mechanical equipment. 48 pages, 6" x 9".

129.61. Each: 1 to 9, \$1.45; 10, \$1.15; 100, \$1.00; 1000, \$.90.



HANDBOOK OF ACCIDENT PREVENTION.

A safety guide for the small plant or part-time safety man. Covers the essentials of a sound safety program: inspections, records, materials handling, fire prevention, and other important topics. Illustrated, 96 pages, 5 7/8"x8 3/4".

129.02. Each: 1 to 9, \$1.75; 10, \$1.40; 100, \$1.20; 1000, \$1.10.

SNAKE BITE MANUAL. Discusses protection against and first-aid for snake bites. It covers: habitat of types of poisonous snakes, safe practices and precautions in areas inhabited by poisonous snakes, emergency bite treatment kits, and medical treatment. Illustrated, 50 pages, 6"x9".

129.66. Each: 1 to 9, \$1.75; 10, \$1.10; 100, \$0.92; 1000, \$0.86.

DEVELOPMENT OF FIRE EMERGENCY PROGRAMS.

A comprehensive manual prepared by the American Hospital Association on basic considerations, organization, training, and other phases of fire emergency programs for hospitals. Includes a complete description of a sample program and of a hospital fire school. Charts and schematics included. 64 pages, 6"x9".

129.56. Each (any quantity) \$1.65.

PLUS COSTS OF ACCIDENTS. Accidents increase the cost of doing business. This booklet discusses how commonsense management principles can be put to work to cut these costs. Illustrated, eight pages, 6"x9".

129.87. Each: 1 to 9, \$2.00; 10, \$1.15; 100, \$0.88; 1000, \$0.87; 5000, \$0.65.

CONSTRUCTION LEAFLETS

Two series of short articles for construction management and for supervisors on important aspects of accident prevention. Prepared by the Associated General Contractors of America with the cooperation of the National Safety Council. Leaflets in both series are illustrated, four pages, 6"x9".

SERIES 1

195.36-1. Accomplishment. Regardless of size, construction projects can be accomplished safely.

195.36-2. Starting a Job. A check-list for planning safety into construction projects.

195.36-3. How to Do the Job Safely. Stresses the importance of planned work procedures and methods design.

195.36-4. Follow Up. The importance of management's sustained support of the safety program.

195.36-5. Your Safety Responsibility. The role of the foreman and supervisor in accident prevention in construction.

195.36-6. Accident Investigation. Discusses why accidents should be investigated—and how to proceed with investigations. Each (Minimum order 30 copies, any selection) 30 to 99, \$1.11; 100, \$0.86; 1000, \$0.55.

SERIES 2

Protection of the Public. Use of enclosures, overhead protection, and other devices to protect the public from accidents.

Failure. Pinpoints the responsibility for accidents.

Performance. Discusses the relationship of safety and efficiency.

Prime Responsibility. The supervisor's dual safety responsibility—to management, to his workmen.

Cooperation. Where to get help in accident prevention work.

Coordination. The management team must coordinate all activities for safety.

195.37. Each: (Available only in sets of above six leaflets. Minimum order five sets.) 5 to 16, \$6.66; 17, \$3.36; 167, \$3.30.

EMERGENCY REMOVAL OF PATIENTS AND FIRST-AID FIRE FIGHTING IN HOSPITALS.

A manual on methods of removing patients from hospitals in case of emergencies, and on the use of first-aid fire fighting equipment. Includes a discussion on training personnel and on fire brigades. Written by Lt. Robert McGrath of the Chicago Fire Prevention Bureau. Jointly published by the National Safety Council and the American Hospital Association. Photographs and charts. 60 pages, 6"x9".

129.57. Each: 1, \$1.45; 2, \$1.15; 10, \$0.92; 100, \$0.86.

SEVEN STEPS TO SAFETY. A leaflet describing the seven simple steps by which a small business can start a safety program. Four pages, 3 1/2"x8 1/4".

129.89. Each: 1 to 9, \$1.10; 10, \$0.85; 100, \$0.29; 1000, \$0.23.

SAFETY SLOGANS FROM EVERYWHERE.

One thousand catchy slogans on all phases of safety for use in safety talks, articles, and on signs and posters. The slogans are divided into categories such as traffic, industrial fire, etc. 32 pages, 6"x9".

029.04. Each: 1 to 9, \$6.65; 10, \$4.40; 100, \$3.35; 1000, \$3.30.

ILLUSTRATED SAFETY DEVICES FOR CEMENT AND QUARRY INDUSTRIES.

Thirty-four safety devices, some old—some new, which have been found effective in actual use. All were submitted by members of the Council's Cement & Quarry Section. Although designed specifically for this industry, most have application to other industries as well. Photographs, 16 pages, 8 1/2"x11".

129.98. Each: 1 to 9, \$8.65; 10, \$7.75.

ADMINISTRATIVE UNITS

what they are

An Administrative Unit is a combination of monthly, annual, and special Council materials selected to provide a balanced information service for you and the key men in your safety program. Each Unit includes copies of an appropriate safety manual, periodicals, and subscriptions to news-type publications such as National Safety News and Newsletters. When ordered as a Unit, these publications cost less than would if purchased separately.

how they work

The Unit provides the subscriber with a background of safety information, and keeps him up to date with safety engineering and program developments. The Unit permits participation in Council Sectional activities. The Unit keeps subscribers informed about new Council services and materials. Unit holders receive all Council Service Guides, announcements, and literature describing new safety aids, as well as samples of many of the new publications.

who should have them

AA-1 Units are for industrial and fleet safety directors. A-1 Units are for people with substantial safety responsibility, such as personnel directors, plant engineers, industrial training supervisors, part-time supervisors of branch installations with 100 or more employees, etc. C-1 Units are most often used by persons with incidental safety responsibilities—medical directors, maintenance foremen, part-time safety supervisors of installations with less than 100 employees. A-2, B-2, and C-2 Units are for fleet supervisors. In addition to the Units shown below, there are many other Units for persons interested in various fields of safety. Write for information.

how to order

When ordering Units, be sure to specify: name and title of the individual, company name, street address, city, zone, and state, type of Unit desired, choice of sections. You'll find a list of Council sections under "News Letters" on page C10.

| ADMINISTRATIVE UNIT CODE NUMBER PRICE | OCCU- PATIONAL | INDUSTRIAL | | TRANSPORTATION | | | CON- STRUCTION |
|---|-------------------|------------|---------|----------------|---------|--------|-------------------|
| | AA-1 | A-1 | C-1 | A-2 | B-2 | C-2 | B-1 |
| | 001.10 | 002.20 | 002.40 | 003.20 | 003.30 | 003.40 | 002.31 |
| | \$20.00 | \$19.50 | \$12.50 | \$20.00 | \$13.50 | \$9.90 | \$13.50 |
| Services Included: | | | | | | | |
| National Safety News, monthly | 1 | 1 | 1 | 1 | — | — | 1 |
| Traffic Safety Magazine, monthly | 1 | — | 1 | 1 | 1 | 1 | 1 |
| Newsletter, monthly | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Industrial Supervisor Magazine, monthly | 1 | 1 | — | — | — | — | 1 |
| Accident Rates Pamphlet, Industrial, annually | 1 | 1 | 1 | — | — | — | 1 |
| Accident Rates Pamphlet, Motor Transportation, annually | 1 | — | — | 1 | 1 | 1 | — |
| Accident Facts, annually | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Accident Prevention Manual | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Handbook of Accident Prevention | — | — | 1 | — | — | — | — |
| Fleet Safety Manual | 1 | — | — | 1 | 1 | — | — |
| Fleet Safety Guide | — | — | — | — | — | 1 | — |
| Construction Manual | — | — | — | — | — | — | 1 |
| Current Safety Topics (Transactions of the National Safety Congress) annually | | | | | | | |
| general | 1 | 1 | 1 | 1 | 1 | — | — |
| morning sessions | 1 | 1 | 1 | 1 | 1 | 1 | — |
| subject sessions | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| section sessions | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| National Safety Calendar, annually | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Technical Releases for your industry, as issued | 1 | 1 | 1 | 1 | 1 | 1 | 1 |



the magazine that teaches safety in terms of better production . . . read and highly regarded by more than 150,000 supervisory people every month

Industrial Supervisor

INDUSTRIAL SUPERVISOR takes over where other training aids leave off. It keeps your foremen and supervisors sold on safety. It impresses them with the importance of the part they play in preventing accidents. It never lets them forget that more efficient production—with safety—is a goal that deserve the best they can give!

Any supervisor worthy of his title is glad to get this magazine because it helps him do a better job in each of his many roles—teacher, detective, inspector, leader, counselor and friend. He has a daily need for the how-to-do-it information, the practical, psychology and human relations features it provides.

INDUSTRIAL SUPERVISOR is saved—in whole or in part—for reference and review—by nearly all subscribers. For best results for your safety program, give each supervisor and foreman his own copy each month.

131.01 Industrial Supervisor subscriptions (12 issues), 1 to 9, each: \$2.15; 10, \$2.00; 100, \$1.90; 1000, \$1.85; 5000, \$1.60; 10,000, \$1.45. 131.03 Industrial Supervisor single issue, 1 to 9, each: \$.25; 10, \$.20; 100, \$.19; 1000, \$.185; 5000, \$.16; 10,000, \$.145.



for self training or group instruction of foremen

SUPERVISOR'S SAFETY MANUAL

A 352 page textbook for foremen, profusely illustrated and written for ease of understanding. Designed to show the foreman the importance of safety to production as well as to teach him the basic knowledge of general accident prevention and human relations techniques that can help him eliminate hazards, correct unsafe work practices, and kindle safety consciousness among his workers.

Written by staff engineers of the Council's Industrial Department, and exhaustively reviewed by the Industrial Safety Training Committee of the Industrial Conference, the Supervisor's Safety Manual is the most complete, detailed, and authoritative book of its kind. Used either

as the basic text for a safety training course for supervisors, or given to foremen for individual study, it is a training tool that can help safety directors achieve the kind of cooperation and safety supervision that is the foundation for an effective accident prevention program.

An Instructor's Guide is available for use in conducting a foreman's safety training course utilizing the Manual as a textbook. One copy provided free with Manual; additional copy provided with each 10 Manuals ordered.

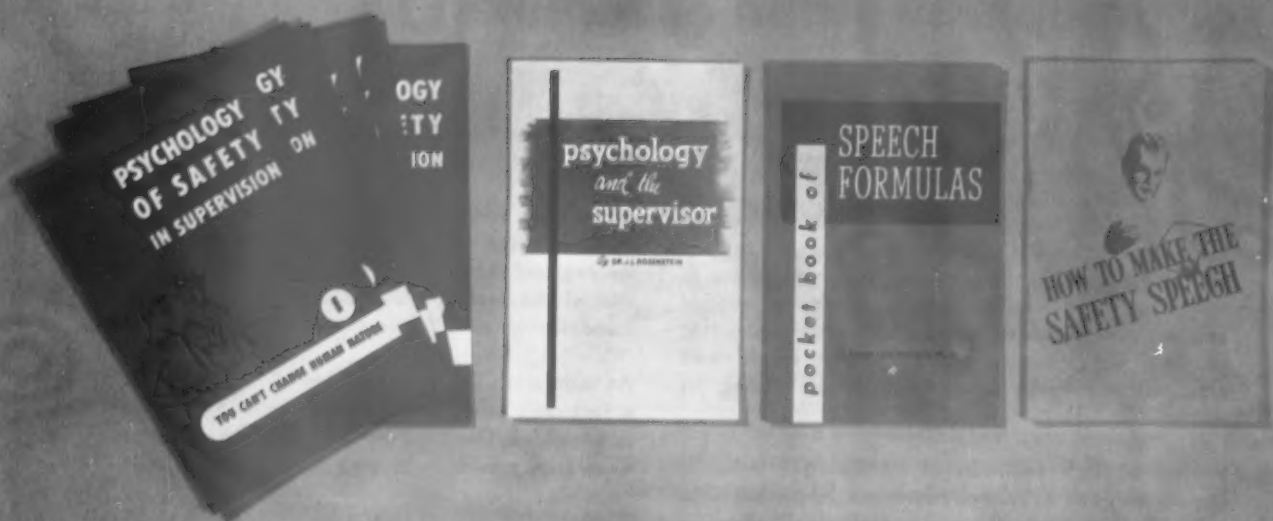
151.05. Supervisor's Safety Manual. Each: 1 to 9, \$3.75; 10, \$2.90; 100, \$2.60; 1000, \$2.50.

151.06. Supervisor's Safety Manual Instructor's Guide. Each: \$.60 in any quantity.

LIST OF CHAPTERS

1. Safety and the Foreman
2. Know Your Accident Problems
3. The Human Element
4. Maintaining Interest in Safety
5. Instructing for Safety
6. Health and First Aid
7. Personal Protective Equipment
8. Departmental Housekeeping
9. Materials Handling and Storage
10. Guarding Machines and Equipment
11. Hand and Portable Power Tools
12. Fire Prevention and Control





PSYCHOLOGY OF SAFETY IN SUPERVISION. A study-discussion course for supervisors in booklet form, written by noted psychologist J. L. Rosenstein. The series stresses the need to understand worker attitudes and actions, and suggests ways of handling problems in human relations which supervisors encounter every day. A leader's guide is included with each shipment of booklets. Booklets are 12 pages each, 6"x9".
151.02. Each: (set of six) 1 to 9, \$1.30; 10, \$1.15; 100, \$1.05; 1000, \$.98.

HOW TO MAKE THE SAFETY SPEECH. A handy booklet on the fundamentals of speech making. Shows safety men, supervisors and foremen how to put safety talks across to large and small groups, how to prepare the speech, and what constitutes a good speech. Includes chapters on conducting safety meetings, varieties of safety meetings, and getting discussions underway. Written by noted speech authority, Dr. Irving Lee of Northwestern University. 64 pages, 5½"x8½".
029.02. Each: 1 to 9, \$.85; 10, \$.72; 100, \$.67; 1000, \$.65.

PSYCHOLOGY AND THE SUPERVISOR. A reprint in booklet form of a series of articles by J. L. Rosenstein, industrial psychologist, which originally appeared in *Industrial Supervisor* magazine. The articles center on basic motivations of human behavior—fear, worry, approval, etc.—and suggests how the supervisor can work better with people by understanding these motivations. Many illustrations. 32 pages, 5½"x8½".
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SPEAKING STRAIGHT—THINKING STRAIGHT. Four lectures by Dr. Irving Lee on public speaking, first presented at the National Safety Congress. In addition to helpful suggestions on speech preparation and delivery, Dr. Lee discusses facts versus assumption, and other aspects of speech content. 24 pages, 5½"x8½".
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POCKET BOOK OF SPEECH FORMULAS. Presents step-by-step analysis of speech-making—whether a full-blown address before a safety convention or an informal talk before a group of supervisors. Organization of material, preparation, and delivery are discussed. Written by Dr. Lester McCreary, professor of Speech and English, of the California Institute of Technology. 36 pages, 5½"x8½".
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PERSONAL DEVELOPMENT SERIES. A series of five pamphlets, each containing lectures by noted psychologists and educators, on topics related to the personal development of the safetyman. The lectures were first given at the National Safety Congress.
022.26-29. *Live a More Abundant Life.*
022.25-30. *Communications and Safety.*
022.24-31. *Let's Get Personal.*
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 Each: (any selection) \$.35 any quantity.

52 5 Minute Safety Talks for Foremen

Brief, informal meetings that keep employees reminded of safety are a real helping hand in the building of a good safety program. And with "5 Minute Safety Talks" your foremen can hold such meetings that will really sell safety! These books arm a supervisor with the knowledge so that he can talk safety like an expert . . . making it interesting and effective!

the 52 FIVE MINUTE SAFETY TALKS FOR FOREMEN series

152.02—Book 1 covers general industrial safe practices, such as fire prevention, materials handling, etc.

152.03—Book 2 doubles the scope of the subjects presented in the first book.

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152.05—Book 4 written by veteran safety man Bill Andrews delves deeply into the problem of worker attitudes.

152.06—Book 5 offers more on worker attitudes; is aimed at showing workers the commonsense benefits of safety.

152.07—Book 6 was written entirely by Roland Blake, co-author of "Industrial Safety", and a well known authority on industrial accident prevention.

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152.22—5 MINUTE SAFETY TALKS FOR RAILROAD SUPERVISORS AND FOREMEN. 52 talks written by experienced railroad safety men, covering safety in and around cars, for maintenance of way workers, etc.

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NATIONAL SAFETY COUNCIL
425 NORTH MICHIGAN AVENUE
CHICAGO 11, ILLINOIS



"SAFETY AND THE FOREMAN"

*a film series that shows supervisors
their responsibilities for safety*

The success of any safety program rests largely on the shoulders of the foreman. He is the "Johnny-on-the-spot" where accidents happen...the man in the best possible position to eliminate hazards, point out unsafe operations and keep each worker conscious of safety on the job.

But there are foremen who need to be reminded of this—who have to be shown and convinced that safety is a basic part of their job. There are foremen who are aware of their part in the safety program, but who do not fully understand how to play that part. And there are foremen who fully recognize and attempt to carry out their safety responsibilities

and who welcome and put to good use any advice and information they are given.

This film series is for all of these foremen. Photographed in real factories and based upon authentic situations each film offers its ideas in an interesting, realistic way...a way calculated to convince, teach, and guide your foremen to the kind of safety supervision that is the foundation of a smooth-running, effective safety program.

Available in 16mm motion pictures, or 35mm sound filmstrips. Running time for each film approximately 13 minutes.



1. No One Else Can Do It.

This is a strong persuader for supervisors who feel that safety is not a part of their job. In the film, a foreman who regards safety as "not his affair," is plagued by a series of accidents in his department. In anger he demands that the plant safety director do a better job of preventing accidents...and is given lesson after lesson showing that only the foreman can do the basic job of preventing accidents that interfere with work output; by teaching workers, watching for hazards, anticipating accident possibilities.



2. Fact Finding, Not Fault Finding

Emphasizes that the important question is not "Whose fault was it?", but, "What can we do about it?". When a bundle of pipes spill out of a crane sling and narrowly miss injuring a worker, the foreman calls hooker, crane operator and worker on the carpet for their carelessness. But each man points out how his part in the near accident was the result of a chain of causes, many of which could have been eliminated by the foreman himself.



3. Foresight— Not Hindsight

A film about a foreman who strongly believes in safety. When an accident occurs in his department he follows through to find the cause and eliminate the hazard. But, as the film carefully illustrates, this "hindsight safety" while commendable, is not the real answer to accident prevention. The foreman comes to realize that foresight is better...that eliminating hazards before they cause accidents is the difference between real safety supervision and just a "good try."



4. What They Don't Know Can Hurt

A lesson on the need for showing workers the right way to do a job, and for correcting them when they are wrong. A foreman, working in his home, gashes his hand with a saw. The next day, while discussing his accident with a carpenter shop foreman, he learns that he has never really understood how to use a saw properly...and that it was his lack of "know-how" that actually caused the accident. The carpenter shop foreman points out that many accidents charged to carelessness are really the result of insufficient knowledge and skill.

Human Factors in Safety



Six 35mm sound slidefilms that show your foremen how to **UNDERSTAND** and **USE** basic human traits in building a better safety program.

Here's how to make your supervisors a dynamic part of your program. Give them this complete film training course that shows how understanding basic human behavior and putting it to use can make Better Safety Supervisors . . . Better Production Men . . . Better Builders of Employee Morale.

Human Factors in Safety is a set of six 35mm sound slidefilms with Leader's Manual. Each film covers one important part of the complex art of handling people. They include tips on breaking in new workers,

keeping experienced workers on their toes, gaining and keeping employee respect, cooperation and loyal support.

The course is entertaining, instructive, effective—a film series that will make your foremen sit up and take notice, because they all want to learn more about the fascinating subject of handling people.

Complete set includes an attractive tan leatherette carrying case. Running time of each film is 15 minutes, except *Safety Case Histories* which is 30 minutes.

THE SECRET OF SUPERVISION

—sets the stage for the other five films. In story form, it illustrates why workers respond enthusiastically to one supervisor, while they resent and rebel against another. It explains that the films to follow show how to be boss and still be liked—the art of handling people.



TEACHING SAFETY ON THE JOB

—shows supervisors how to prepare and give job safety instructions. The four steps of good job training illustrated are: **PREPARE**—tell the worker what he has to learn and why; **PRESENT**—demonstrate how the job is done; **APPLY**—let the worker try it; **TEST**—spot check until the worker masters the job.



PEOPLE ARE ALL ALIKE

—explains that all normal people want the same things: a feeling of belonging to the crowd, recognition for good work, knowledge of what goes on, the ability to talk things over with the boss, and pride in their jobs. With the help of Ditzel's cartoons, the film shows how supervisors can satisfy these basic wants—get their men to work with them.



EVERYBODY'S DIFFERENT

—points out that while people have many things in common they also differ from one another in personality, ability and background. The film—a Bruce Shanks cartoon special—shows supervisors what allowances to make for these differences . . . how to handle the rough guy, the show-off, the loud-mouth, the daydreamer, and the practical joker.

TEAMWORK FOR SAFETY

—suggests way for supervisors to make safety interesting and important to their workers. Holding stimulating meetings, encouraging suggestions from workers, using safety literature to good advantage, getting the workers to inspect for hazards . . . are some of the techniques discussed.

SAFETY CASE HISTORIES

—the first safety sound slide of its kind! It presents case histories of accidents that actually happened. After each, the film is stopped so the audience can discuss what caused the accident, and how it could have been prevented. This unusual way of giving the audience a chance to show what they've learned is a wonderful wind-up for a great training course.

"Supervising for Safety"



3 training films
featuring

Gustave G. O'Grady

*the foreman whose fumbling, fuming,
and invariably funny mis-adventures
offer your foremen some sound lessons
in handling their own workers.*

Since this popular film series was released several years ago, it has been put to use by hundreds of companies in their foreman training programs. The ideas presented in each film are those of Dr. Arthur Secord, a noted lecturer and teacher of human relations. O'Grady presents these ideas in a series of episodes that get your foremen learning while they laugh—learning that happy workers are less likely to have accidents, and that worker happiness depends a lot upon intelligent supervision. Running time is 12 minutes for each film. The series is available in either 35mm sound slidefilms or 16mm sound motion pictures. Black and white.

CALL 'EM ON THE CARPET

Confronted with the problem of trying to correct some of his men, O'Grady realizes that each worker is different—each must be treated as an individual. He learns too, to "cool off" before he "sounds off" to correct a man in private, explain the reasons for his instructions, work in a compliment when it's deserved.



IT'S AN ORDER

O'Grady is having accident trouble when he receives a note from management on "how to give an order." He's indignant at this suggestion but after a series of humorous misunderstandings, O'Grady decides that there's more to giving orders than he realizes. He re-reads the instructions: say what you mean; make written orders clear; not too many orders at once; show by doing; explain why.



FRAGILE—HANDLE FEELING WITH CARE

After studying the discontented attitudes of some of his employees, O'Grady reaches the decision that as supervisor, a really important part of his job is to consider the feelings of his employees—that workers want to know the "reasons why" for rules or changes. The supervisor must give them recognition for their ideas, take their requests into consideration, and give them an occasional pat on the back.



4 other films for your foreman training program



ALL OUT FOR SAFETY

Story of what happens to supervisor O'Grady when he attends a safety conference. He learns the value of meeting with others in his field, seeing new devices and ideas which will profit him, finds out that other people have similar problems—and how they solve them. Black and white. 15 minutes. 16mm sound motion picture.



A GRAY DAY FOR O'GRADY

O'Grady learns that accidents are very much his business. The boss shows him how a couple of recent accidents tied up his time, brought production to a near standstill and spiraled his department's costs. 15 minutes. 35mm sound slidefilm, or 16mm sound motion picture. Black and white.



PICK YOUR SAFETY TARGET

Shows foremen how to analyze and classify accidents, interpret facts and translate them into action. Combined cartoons and live shots. 13 minutes. 35mm sound slidefilm—color, 16mm sound motion picture—color, or black and white.



SAFETY DOESN'T HAPPEN

A film for businessmen and supervisors, of any size firm and any type of operation. Shows how accidents result in red ink by causing production lags, slowing up shipments, disrupting employee morale and efficiency. Offers clear evidence that safety is good business and smart foremanship. 16mm sound motion picture, black and white. Running time 16 minutes.



... "speaking of safety"

**Shows your supervisors
how to put across ideas,
how to speak with
confidence, of safety.**

Supervisors and foremen are the vital link in communicating management ideas to workers. This tested set of training films makes it easier for your men on the line to speak up for safety . . . helps them talk persuasively, with more confidence and conviction. You don't have to be a speech training expert to put on this course. The easy-to-follow Leader's Manual provides detailed plans for a series of six meetings and

practice sessions. Anyone who can thread a sound slide projector and lead an informal discussion meeting can do an effective job.

The series consists of six 35mm sound slidefilms and Leader's Manual packed in an attractive leatherette carrying case with two-sided records for use with either manual or automatic projectors. Running time is 13 minutes for each film.

THE POWER OF SPEECH

An introduction to the films. It lists some of the occasions when foremen and supervisors may be called upon to give a speech, explains the difference between a formal speech and a working speech, and discusses their purposes.

BUTTERFLIES IN YOUR STOMACH

Describes "that strange feeling that hits you the moment you stand up to talk," explains the physiological reactions that cause stage fright, and shows how to overcome it.

THE KEY TO GOOD SPEAKING

Outlines four methods of preparing a speech, discusses the advantages and disadvantages of each, then explains which method is recommended and why. The film gives a step-by-step description of how to prepare a typical safety speech.



ON YOUR FEET

Explains what to do physically when you get up to talk; how to stand; the purpose of moving around and how to do it effectively; what to do with your hands; where to look.

NOW YOU'RE TALKING

Discusses the actual speech making: how loudly to talk; vocabulary, and how to phrase your ideas; your attitude—why it is important not to "talk down" to your audience . . . how friendliness, sincerity, and enthusiasm can make a successful speech.

RING THE BELL

Shows how to hold the attention of your audience from beginning to end. It explains how to "break through the ice"; the value of demonstrations, scale models or mock-ups, films and still pictures, graphs, charts, and diagrams.

Safety Management for Foremen

Ten 35mm sound slidefilms with Leader's Manual . . . designed to make your foremen the sparkplugs of your safety program

Hundreds of executives have written in to say that this series has done more than any other training aid to develop the safety knowledge and training ability of their foremen. It shows foremen what and how to teach workers . . . it shows them the importance of the part they play in the safety program . . . and how a successful program can bring the benefits of increased production. The set is packed in a sturdy leatherette carrying case. Running time of each film is 20 minutes.



FOLLOW THE LEADER

Gives a step-by-step description of how a safety program is organized—assigning safety responsibility, analyzing accident records, holding safety meetings, inspecting, guarding machinery, training employees.



CAUSE AND CURE

Shows how to analyze an accident to determine its real causes. The film covers ten unsafe acts and eight unsafe conditions every foreman should be on the lookout for.



GUARD DUTY

Pictures effective guards for common power machines, and points out that it's up to foremen to see that these guards are kept in place.



SAFETY IS IN ORDER

Good housekeeping from the foreman's angle. Some points stressed are: a place for everything and insist that everything is in its place; a minimum of raw material on the floor; aisles clear; supervise piling of material; every man keeps his work area clean.



RIGHT DRESS

It's up to your foremen to see that each of their workers has the right dress for his job. Every foreman should be familiar with the common types of protective equipment pictured in this film.



DOCTOR'S ORDERS

Your workers' attitude toward first aid depends on your foremen . . . sells them on the importance and value of prompt first aid. It also discusses the value of regular physical examinations, and accident reports for every first aid case.



BRAIN BEATS BRAWN

Improper handling of material and how to teach your foremen to prevent these injuries—and teach them the best material handling practices—gives detailed instructions on lifting and covers other material handling hazards.



STOP, LOOK AND LISTEN

This film pictures a safety inspection committee—shows exactly what to look for when making a plant inspection. "Stop and think about safety long enough to look for unsafe conditions, and listen to safety suggestions" is their slogan.



PRINCIPLES AND INTEREST

To sell safety to workers, your foremen must create an active interest in the subject. Discusses ways in which this can be accomplished: posters, contests, inspections, safety meetings, awards, payroll enclosures, publicity.



PRODUCTION WITH SAFETY

"It takes less time to prevent accidents than to have them" is the theme of this film. The accident case histories presented in the film prove the point—give specific examples of how safety increases production and cuts costs.



Correct
the unsafe attitudes
behind the unsafe acts
with these monthly
pocket-sized
safety salesmen

the safe worker — this pocket sized psychologist can build a sound safety attitude in even the most unresponsive worker—the one who's been told and told but never sold. Using a mixture of cartoons, broad humor and homespun philosophy it offers its accident prevention lessons in a pleasant, interesting way — sugar coated doses of safety sense that gently point out the benefits of doing every job the safe way. With your company name imprinted on the cover, **SAFE WORKER** becomes your own, company safety magazine . . . and you'll see a

large percentage of your employees taking it home to share with their families. It's published every month, has 16 pages and is a handy 3½" x 5½" in size. **161.01 Safe Worker Subscription (12 issues)** 1 to 9 each: \$1.00; 10, \$.76; 100, \$.58; 1000, \$.485; 5000, \$.455; 10,000, \$.425; 20,000 or more, \$.40. **161.03 Safe Worker single issues**, 1 to 9, each: \$.15; 10, \$.10; 100, \$.06; 1000, \$.049; 5000, \$.046; 10,000, \$.043; 20,000 or more, \$.04.

the safe driver — safety squibs sprinkled with humor and cartoons induce drivers to form good driving habits and accept responsibility for equipment entrusted to them. A sound safety builder available in 3 editions; truck, bus and passenger car. Truck edition, 16 pages, bus and passenger car editions 8 pages. 3½" x 5½".

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Single Issue, each: 1 to 9, \$.15; 10, \$.10; 100, \$.06; 1000, \$.049; 5000, \$.046; 10,000, \$.043; 20,000 or more, \$.04.

the safe railroader — monthly magazine for railroad workers, with cartoons, common-sense safety rules and humorous articles that win and maintain employee interest. Suitable for all railroad men — engineers, firemen, trainmen, shop and maintenance of way personnel. 8 pages, 3½" x 5½". **163.01 Safe Railroader subscription (12 issues)** 1 to 9, each: \$.75; 10, \$.44; 100, \$.33; 1000, \$.28; 5000, \$.27; 10,000, \$.26; 20,000 or more, \$.25. **163.03 Safe Railroader single issues**, 1 to 9 each: \$.10; 10, \$.07; 100, \$.035; 1000, \$.028; 5000, \$.027; 10,000, \$.026; 20,000 or more, \$.025.

the safe builder — the construction industry's own employee safety magazine, issued monthly. It is aimed at the specific hazards, the unsafe practices and attitudes peculiar to the construction industry and its workers. 8 pages, 3½" x 5½". **164.01 Safe Builder Subscription (12 issues)** 1 to 9, each: \$.75; 10, \$.44; 100, \$.33; 1000, \$.28; 5000, \$.27; 10,000, \$.26; 20,000 or more, \$.25. **164.03 Safe Builder single issues**, 1 to 9, each: \$.10; 10, \$.07; 100, \$.035; 1000, \$.028; 5000, \$.027; 10,000, \$.026; 20,000 or more, \$.025.



Attitudes,
Fire Prevention
and Off-The-Job
Safety

STEPS TO SAFETY. A personal checklist of sound safety rules that apply to any worker on any job—and off-the-job as well. The straight-from-the-shoulder approach portrays the safety program as the personal concern of each employee. Cartoons on all 16 pages. 3"x5½".

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DO WE STILL NEED SAFETY? A safety attitude builder. Points out that despite automation, "fool proof" machines, and new safety devices, the safety of each worker depends on personal care and know-how. Cleverly illustrated in full color. 16 pages, 4" x 9".

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WORKING TOGETHER FOR SAFETY. A safety rules booklet for employees and supervisors. Covers general industrial safety regulations concerning machine operation, hand tools, electrical equipment, fire prevention, and material handling. Especially valuable as orientation for new employees. 32 pages, 4"x7".

192.08. Each: 1 to 9, \$.20; 10, \$.15; 100, \$.11; 1000, \$.09; 5000, \$.085; 10,000, \$.08; 20,000, \$.075.

WHAT'S IN IT FOR ME? Points out the many ways in which the individual employee profits from a good plant safety program. Asks and answers such questions as: Who Can Have An Accident? What Causes Accidents? and Who Pays for Accidents? Emphasizes that employees gain most from safety. Full color, 16 pages, 4"x9".

192.09. Each: 1 to 9, \$.20; 10, \$.13; 100, \$.092; 1000, \$.072; 5000, \$.063; 10,000, \$.057; 20,000, \$.051.

SAFETY IS NO ACCIDENT. The 10 basic rules of plant accident prevention presented via picture story. Topics dealt with are: first aid, safe dress, lifting and handling, falls, hand tools, machine operation, electricity, housekeeping, fire prevention, and compressed air equipment. 16 pages, 3½"x7", full color.

192.11. Each: 1 to 9, \$.20; 10, \$.13; 100, \$.092; 1000, \$.072; 5000, \$.063; 10,000, \$.057; 20,000, \$.051.

HEADS YOU WIN. Discusses the part that luck, common sense, thinking ahead, and attitudes play in having an accident—and not having one. The recurring theme is that the man that uses his head—keeps his mind on his job, keeps his emotions in control, looks out for and reports hazards—stays safe. 16 pages, 3½"x8¼".

192.10. Each: 1 to 9, \$.20; 10, \$.13; 100, \$.092; 1000, \$.072; 5000, \$.063; 10,000, \$.057; 20,000, \$.051.

THE MAN WITH THE BADGE. A discussion of the art of serving on a safety committee—making inspections, making reports, spotting hazards, and—most important—getting along with and securing the cooperation of supervisors and workers. Cartoon illustrations. 64 pages, 4"x6½".

195.71. Each: 1 to 9, \$.70; 10, \$.50; 100, \$.35; 1000, \$.30.

TAKE IT HOME WITH YOU. For every 100 workers injured on the job, there are nearly 130 hurt off the job. The rules that make for safety on the job can be applied to prevent accidents at home. Rules for prevention of home falls, electric shock, and home fires are given. Full color cartoons. 12 pages, 3¾"x7¾".

194.35. Each: 1 to 9, \$.20; 10, \$.13; 100, \$.09; 1000, \$.069; 5000, \$.058; 10,000, \$.057; 20,000, \$.045.

NICE GOING, POP! A booklet for dads, on the safety of their children... especially toddlers. Deals with the hazards of traffic, water, burns, falls, firearms, other special problems of youngsters. Cartoon illustrations in full color. 8 pages, 3½"x8".

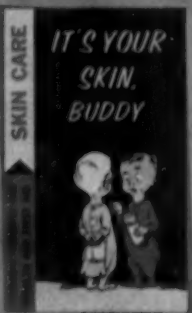
599.33. Each: 1 to 9, \$.15; 10, \$.10; 100, \$.069; 1000, \$.052; 5000, \$.046; 10,000, \$.043; 20,000, \$.04.

FLAMES I HAVE KNOWN. The story of plant fires as told by Torchy McBlue, a torch singer. A humorously different booklet on fire prevention. Discusses good housekeeping, precautions in using flammable liquids, smoking, and electrical fire hazards. Includes a fire extinguisher chart. 16 pages, 3¾"x7".

195.76. Each: 1 to 9, \$.20; 10, \$.13; 100, \$.092; 1000, \$.072; 5000, \$.063; 10,000, \$.057.

THIS'LL BURN YOU UP. A fire booklet presented in an entirely new format—a match book. A sure-fire attention-getter, it discusses the many ways employees can inadvertently cause a disastrous plant fire—and the safeguards that will keep every plant fire safe. 4"x5", 16 pages, cartoon illustrations.

195.78. Each: (Minimum order 10 copies) 10, \$.13; 100, \$.092; 1000, \$.07; 5000, \$.063; 10,000, \$.057; 20,000, \$.055.



ACCIDENT PREVENTERS

A series of colorful 4 page folders, each dealing with a particular safety problem. 3" x 5", cartoon illustrations.

- 191.10-101. Lifting
- 191.10-102. Receiving & Shipping Rooms
- 191.10-201. Housekeeping
- 191.10-202. Smoking
- 191.10-301. Safe Clothing
- 191.10-302. Eye Protection
- 191.10-401. Get First Aid Fast
- 191.10-402. Skin Care
- 191.10-501. Four Principles
- 191.10-502. Electricity

Each (any selection): 1 to 9, \$11; 10, \$257; 100, \$228; 1,000, \$223; 5,000, \$221; 10,000, \$22; 20,000, \$219.

FIRST AID REMINDERS

A set of nine leaflets that provide quick reference in emergencies and for first aid instructions. 4 to 6 pages, printed in two colors 3 1/2" x 6 1/4".

- 195.04-1. What to do for a Wound—for Shock
- 195.04-2. What to do for Bleeding
- 195.04-3. What to do for a Broken Bone
- 195.04-4. What to do for Heat Cramps, Heat Exhaustion, Sunstroke and Fainting
- 195.04-5. What to do for Poisoning
- 195.04-6. What to do for Bruises, Sprains, and Strains—How to Move an Injured Person
- 195.04-7. What to do for Burns and Scalds
- 195.04-8. Artificial Respiration (Schaffer)*
- 195.04-9. Artificial Respiration (Arm Lift)

Each (any selection): 1 to 9, \$10; 10 to 99, \$258; 100 to 999, \$24; 1000 or more \$23.

195.01. Set of eight each: 1 to 9, \$40; 10 to 99, \$28; 100 to 999, \$21; 1000 or more, \$189.

*Not included in set.





Health, Falls, Home,
Holiday, and
Material Handling
Booklets

LET'S GO ON A SAFE VACATION. Presents safety tips for the vacation-bound employee—and his family. Motoring safety; camping, swimming, and outdoor safety; and the hazards that the vacationer is apt to encounter right in his own back yard are topics dealt with. Full color, eight pages, 4"x8".

194.36. Each: (Minimum order 10 copies) 10, \$10; 100, \$0.69; 1000, \$0.52; 5000, \$0.46; 10,000, \$0.43; 20,000, \$0.4.

GET A LOAD OF THIS. A lesson in safe and efficient handling of all types of materials is presented in this employee booklet. Throughout the emphasis is on use of brain—not brawn—to safely lift, move, and stack, by hand and by power equipment. Full color cartoon illustrations. 16 pages, 3 3/4"x7 3/4".

195.75. Each: 1 to 9, \$20; 10, \$13; 100, \$0.92; 1000, \$0.72; 5000, \$0.63; 10,000, \$0.57; 20,000, \$0.51.

DENNIS THE MENACE ON SAFETY. One of America's favorite comic-strip children makes some pertinent points about safety—and the lack of it—around his home and community. As always, Dennis is good for a laugh—but there's a moral behind every gag. Full color, 16 pages, 5 1/2"x7 1/2".

599.34. Each: 1 to 9, \$20; 10, \$13; 100, \$0.92; 1000, \$0.58; 5000, \$0.54; 10,000, \$0.5; 20,000, \$0.49.

DOWN TIME. Helpful facts for staying healthy and physically fit. Deals with diet, exercise and relaxation, sleep, the importance of medical check-ups and first aid for injuries, and other factors in keeping the "human machine" running at top efficiency. 16 pages, cartoons, 3"x5 1/2".

195.25. Each: 1 to 9, \$15; 10, \$10; 100, \$0.69; 1000, \$0.52; 5000, \$0.46; 10,000, \$0.4; 20,000, \$0.35.

THE FALL GUY. Discusses the acts and conditions that cause falls in industry: poor house-keeping, unsafe practices on—and condition of—ladders, haste on stairs, use of makeshifts and faulty equipment. Cleverly illustrated. 16 pages, 3"x5 1/2".

195.63. Each: 1 to 9, \$15; 10, \$10; 100, \$0.69; 1000, \$0.52; 5000, \$0.46; 10,000, \$0.4; 20,000, \$0.35.

DO'S AND DON'TS OF LADDER SAFETY. A fully illustrated booklet showing the right and wrong ways to use ladders, especially around the home or farm. Deals with how to carry, how to place, how to inspect for defects, and how to work from ladders. Photographs and drawings. Eight pages, 3 1/2"x9".

699.61. Each: 1 to 9, \$0.7; 10, \$0.33; 100, \$0.2.

HOME TUMBLES ARE NO CIRCUS. Jocko, a clown, tells how to prevent accidental—and unfunny—falls around the home by using safe ladders, adequate lighting, and through other safe practices. An easy-to-read discussion of an important safety topic. Full-color illustrations, 12 pages, 4"x9".

599.63. Each: 1 to 9, \$20; 10, \$13; 100, \$0.92; 1000, \$0.72; 5000, \$0.63; 10,000, \$0.57; 20,000, \$0.51.

FIT AS A FIDDLE. Shows how simple rules can lead to better health, more enjoyment out of life, and—yes—even longer life. Care of the eyes, teeth, feet, prevention and treatment of colds, diet, and cleanliness are some of the topics discussed. Sprightly illustrated in four colors. 3 3/4"x7 3/4".

195.26. Each: 1 to 9, \$20; 10, \$13; 100, \$0.92; 1000, \$0.7; 5000, \$0.63; 10,000, \$0.57; 20,000, \$0.51.

FALLS AREN'T FUNNY. Falls rank second as a cause of accidental death... and are responsible for a large portion of lost-time accidents in industry. They certainly are no laughing matter. This booklet discusses preventing falls—in factory, office, and home. Full color, 8 pages, 3 3/4"x8".

195.74. Each: 1 to 9, \$20; 10, \$12; 100, \$0.92; 1000, \$0.72; 5000, \$0.63; 10,000, \$0.57; 20,000, \$0.51.

SAFE AT HOME. This booklet is packed with suggestions for eliminating hazards in every room of the home. Specific safe practices are given. Special sections on safety of children and the aged are included. Illustrated in a refreshingly different style. 16 pages, 4"x7 1/4".

599.61. Each: 1 to 9, \$15; 10, \$10; 100, \$0.8; 1000, \$0.58; 5000, \$0.5; 10,000, \$0.45; 20,000, \$0.4.

IS YOUR HOME FALL PROOF? The leaflet asks 30 important questions about conditions in the reader's home that might lead to a disastrous—maybe fatal—fall. Special sections on family protection, protecting children, and falls out of doors. Six pages, 3 3/4"x8 1/2".

599.23. Each: 1 to 9, \$15; 10, \$0.6; 100, \$0.35; 1000, \$0.29; 5000, \$0.25; 10,000, \$0.22; 20,000, \$0.2.



Special
Occupations
and
Hazards

YOUR TEN BEST TOOLS. Everyone knows the childhood rhyme beginning "Ten little Indians." This booklet, on caring for your hands, begins with "Ten little fingers" and tells how each was lost, through an avoidable accident. A simple but forceful presentation on an important topic. 4"x8 3/4", 8 pages.

195.77. Each: 1 to 9, \$.20; 10, \$.13; 100, \$.09; 1000, \$.069; 5000, \$.058; 10,000, \$.05; 20,000, \$.045.

BEDSIDE MANNER. A booklet for hospital patients, dealing with such matters as smoking, fire drills, getting in and out of bed, personal property, and general hospital regulations regarding patients and visitors. Produced jointly with the American Hospital Association. Four pages, 3 1/2"x8 1/2".

199.25. Each: 1 to 9, \$.15; 10, \$.052; 100, \$.029; 1000, \$.023; 5000, \$.02; 10,000, \$.017; 20,000, \$.015.

CHAIN SAW SAFETY. A booklet on all aspects of use of chain saws: care, operation, handling, special hazards, starting, and step-by-step description of making a cut so that the tree falls in the proper—and predicted—direction. Special operations, such as limbing and bucking are dealt with. Illustrated, eight pages, 4 1/2"x8".

195.53. Each: 1 to 9, \$.23; 10, \$.138; 100, \$.092; 1000, \$.08.

PRUDENCE AVEC LA SCIE À CHAÎNE. The French language edition of the booklet "Chain Saw Safety." Especially prepared for the large French-speaking work force in the lumbering industry in Canada. The subject matter and illustrations are the same as in the English edition. Accurately translated into vernacular French. Eight pages, 4 1/2"x8".

195.54. Each: 1 to 9, \$.25; 10, \$.17; 100, \$.115; 1000, \$.092.

CRANE CONTACTS KILL. A leaflet dealing with an important hazard in construction work and crane operation—the contact of booms, derricks, etc., with power lines. Discusses prevention of such contacts and the steps to take in case of contact. Six pages, illustrated, 3 3/4"x8 3/4".

199.32. Each: 1 to 9, \$.15; 10, \$.09; 100, \$.08; 1000, \$.045.

STICKER: "DANGER KEEP CLEAR OF ELECTRIC LINES."

An oversized sticker to be mounted inside crane cabs to serve as a constant reminder to the operator to watch out for boom contacts. Pressure-sensitive backing permits the mounting of this sticker instantaneously on any smooth surface. 4"x7".

199.31. Each: 1 to 9, \$.18; 10, \$.10; 100, \$.08; 1000, \$.07.

GO FLY A KITE. Kite flying can be—and should be—fun for youngsters. But like so many fun activities, kite flying can lead to tragedy. This leaflet gives youngsters several important tips on flying a kite safely—away from traffic and away from electric wires. Four pages, 3 1/2"x6".

199.24. Each: 1 to 9, \$.10; 10, \$.035; 100, \$.025; 1000, \$.015; 5000, \$.014; 10,000, \$.013; 20,000, \$.012.

WATCH OUT FOR WIRES. This leaflet, written especially for youngsters, gives a point-by-point description of what to do if a fallen power wire is encountered. The points stressed are: (1) call the electric company; (2) stay away; and (3) warn others. Six pages, illustrated, 3 3/4"x8 3/4".

195.42. Each: 1 to 9, \$.11; 10, \$.057; 100, \$.028; 1000, \$.023; 5000, \$.021; 10,000, \$.02; 20,000, \$.019.

IN THE CLEAR. This booklet contains 18 important rules for safety in logging operations. Simple do's and don'ts cover such topics as care and use of axes and saws, proper dress and personal protective equipment, and precautions around rigging and other equipment. Cartoons illustrate each point. Eight pages, 4 1/2"x8".

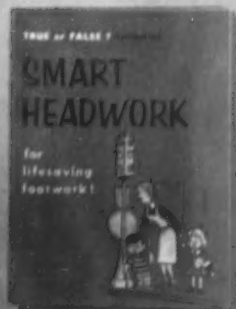
195.33. Each: 1 to 9, \$.15; 10, \$.10; 100, \$.069; 1000, \$.052.

MORE GRavy, SIR! A booklet providing tips on safety in food serving—for waitresses, waiters, and busboys. Items covered include: checking dishes and silverware for rough edges and splinters, keeping floors clear of tripping hazards, avoiding spills and burns, keeping foreign matter out of food. Six pages, cartoon illustrations, 3 3/4"x8 3/4".

199.28. Each: 1 to 9, \$.17; 10, \$.092; 100, \$.052; 1000, \$.04.

A WAGGIN' TALE. Tips on making friends with dogs—for postmen, salesmen, public utilities employees, and others who encounter dogs in the course of their work. Explains how to approach dogs, how to act toward an unfriendly dog, and how to protect yourself if attacked. Illustrated, six pages, 3 3/4"x8 1/2".

199.35. Each: 1 to 9, \$.18; 10, \$.08; 100, \$.046; 1000, \$.035; 5000, \$.032; 10,000, \$.03; 20,000, \$.029.



Traffic,
Commercial Vehicle,
& Transit
Booklets

KNOW AND OBEY YOUR SIGNS OF LIFE. A leaflet illustrating the shapes and meanings of standard traffic signs. In addition to the six basic-shaped signs, railroad crossing markings and signals, and paving markings are illustrated. Four pages, 4"x7 1/2", illustrated in three colors.
399.71. Each: 1 to 9, \$.06; 10, \$.025; 100, \$.02; 1000, \$.017; 5000, \$.015; 10,000, \$.014; 20,000, \$.012; 100,000, \$.01.

SMART HEADWORK FOR LIFE-SAVING FOOTWORK. A quiz booklet for pedestrians. Asks and answers such questions as: Are most pedestrian fatalities young children? Are most pedestrian fatalities caused by walking against the light? Four color cartoons, 16 pages, 5 1/4"x7 1/4".
399.52. Each: 1 to 9, \$.15; 10, \$.09; 100, \$.06; 1000, \$.045; 5000, \$.04; 10,000, \$.035; 20,000, \$.032.

DEFENSIVE DRIVING — for Bus Operators. Discusses the important safe driving concept of defensive driving. The emphasis is on convincing drivers that preventing accidents is not so much squeezing out of tight spots but anticipating and avoiding them in the first place. Illustrated, 24 pages, 3"x5".
294.01. Each: 1 to 9, \$.20; 10, \$.13; 100, \$.092; 1000, \$.067; 5000, \$.058.

HIGHWAY ZOO. Animals are used to show some of the zany driving habits of human beings. The wildcat, the wolf, the jack-rabbit, the lovebird, the skunk and—of course—the jackass are some of the characters from the animal world that appear here. Full color cartoons, 16 pages, 4"x8".
399.04. Each: 1 to 9, \$.15; 10, \$.09; 100, \$.06; 1000, \$.045; 5000, \$.04; 10,000, \$.035; 20,000, \$.032.

THE YOU FACTOR IN ACCIDENT CAUSES — Truck Edition. The personal factors in vehicle accidents. Discusses faulty driving habits and driver-attitudes that are a factor in over 90 per cent of all motor vehicle accidents. Each page of text faces a full-page cartoon illustration. 24 pages, 5 1/2"x3 1/2".
294.03. Each: 1 to 9, \$.20; 10, \$.13; 100, \$.092; 1000, \$.067; 5000, \$.058.

BE YOUR OWN TRAFFIC JUDGE. Case histories of traffic accidents. Readers are asked a number of true-false questions about the accident; on the following page the right answers are given and the accident is discussed. An excellent presentation on the preventability of accidents. 16 pages, cartoons, 5 1/4"x8 1/4".
294.07. Each: 1 to 9, \$.20; 10, \$.15; 100, \$.11; 1000, \$.09; 5000, \$.085.

HOW TO BE A SMOOTH OPERATOR. Deals with driving commercial vehicles in city traffic, and reveals the secret of smooth operation: the skillful coordination of driver and vehicle with traffic conditions. Points out that smooth operation not only prevents accidents but spares the driver's nerves. Illustrated, 24 pages, 3"x5".
294.05. Each: 1 to 9, \$.20; 10, \$.13; 100, \$.092; 1000, \$.067; 5000, \$.058.

SIGNS OF TRAILS AND RAILS. A book especially for children on the meaning and importance of highway signs, signals, and markings. These signs and markings are related to the signals used by pioneers, Indians, and cavalymen of the early West. Full-color illustrations, 12 pages, 5 1/2"x8 1/4".
399.76. Each: (Minimum order 100 copies) 100, \$.12; 1000, \$.095; 5000, \$.09; 10,000, \$.085.

THE YOU FACTOR IN ACCIDENT CAUSES — Bus Edition. A special version of the truck edition of this booklet, with text and illustrations redone to emphasize the special problems encountered by drivers of busses. Two-color cartoon illustrations. 24 pages, 5 1/2"x3 1/2".
294.04. Each: 1 to 9, \$.20; 10, \$.13; 100, \$.092; 1000, \$.067; 5000, \$.058.

HOW TO GO ON ICE AND SNOW. In brief form covers all the important factors in safe vehicle operation in hazardous winter conditions. Preparing for winter, cold-weather starts, snow tires and chains, avoiding skids, and driving out of skids are covered. 8 pages, illustrated, 3 1/2"x6 1/2".
399.60. Each: (Minimum order 10 copies) 10, \$.10; 100, \$.06; 1000, \$.04; 5000, \$.035; 10,000, \$.034; 20,000, \$.033.

PASSENGER SAFETY. Shows bus drivers how they can prevent boarding, alighting, and on-board accidents to passengers. Covers skills and attitudes that safeguard the rider from the time he steps off the curb to board until he gets off at his stop. Illustrated, 24 pages, 3"x5".
294.06. Each: 1 to 9, \$.20; 10, \$.13; 100, \$.092; 1000, \$.067; 5000, \$.058.

Falls Pennant Strings

Groups of 5 pennants, each 11½" wide at top, 21½" long. Sold in sets of 3 groups (5 double faced pennants and 10 single faced pennants). Double faced pennants may be strung above work areas, in parking lots, or at plant entrances, and can be read from either side. Single faced pennants, printed on one side only, may be hung on walls, bulletin boards, etc.

187.94. Each (per set of 15 pennants): 1 to 4, \$2.25; 5, \$1.65; 10, \$1.35.

Falls Footprints

An unusual gimmick, sure to attract interest and attention. Can be placed on floors, walls, machines — anywhere! Easy to apply—the pressure sensitive adhesive backing sticks firmly without moistening, and is just as easily removed by peeling right up. These "footprints" that lead the way to prevention of falls provide the eye-catching touch that adds interest to any campaign. Each foot print is approximately 12" long. Sold in sets of 4.

199.91. Each (set of 4): 1 to 9, \$1.00; 10, \$.78; 100, \$.67.



Dash Stickers

Safety reminders for commercial vehicle drivers with pressure-sensitive back that adheres to any type of surface—comes off cleanly. They are bright, 4-color safety ads that keep drivers on their toes. Carefully chosen subject matter makes them equally effective for truck drivers, bus operators and passenger car drivers. 3" x 6". Sold only in set of 12 different stickers. New sets published annually.

262.25. Each (per set of 12): 1 to 9, \$.90; 10, \$.70; 100, \$.60; 1000, \$.55.

Dash Cards

Colorful, illustrated cards to keep drivers safety-awake when they are behind the wheel. The 3" x 6" cards slip into metal holders fastened to the dash. Subscription includes 24 cards (two a month) printed on both sides. Metal holders are free with each set. Specify choice of Truck or Bus sets when ordering.

262.01. Each (12 issues with holder): 1 to 9, \$.79; 10, \$.67; 100, \$.50; 1000, \$.45.

When purchased with enrollment for the Complete Motor Transportation Service—use special price.

262.05. Each (12 issues with holder): 1 to 9, \$.73; 10, \$.61; 100, \$.45; 1000, \$.40.



FALLS BANNERS

A special series of three banners—big and colorful so they can't be overlooked—on the important accident problem—FALLS. Each banner printed on durable heavy cloth and constructed for ease and speed in putting up, taking down, and relocating without damage. 10' x 3½'. Order set of three or individually.

Set of 3 Banners

188.92. Each (per set): 1 or 2, \$27.00; 3, \$25.80; 15, \$24.70.

Individual Banners

188.91-1. Don't Be A Fall Guy
188.91-2. Falls Don't Just Happen
188.91-3. Look Falls Aren't Funny
Each: 1 or 2, \$9.75; 3, \$9.20; 15, \$8.60.



Safety Decals

**SPRINKLER VALVE
DO NOT CLOSE UNLESS
AUTHORIZED**

DANGER
**WEAR GOGGLES
WHILE OPERATING
THIS MACHINE**

**KEEP FLOOR CLEAN
AROUND THIS
MACHINE**

ACTUAL SIZE
2" x 3 1/2"

CAUTION
**STOP MACHINE
BEFORE MAKING
ADJUSTMENT**

Safety Decals attached to machine frames, guards, fuse boxes and fire doors constantly remind workers to observe safe practices and follow instructions. These colorful Decals conform to ASA specifications. Size 2" x 3 1/2".

198.00 Each (any selection): 1 to 9, \$14; 10, \$49; 100, \$47; 1000, \$455.

Please order by stock number and decal number.



A Green Cross for Safety emblem printed in white letters on green with the words "MEMBER NATIONAL SAFETY COUNCIL" below in green. For use on office doors or windows. Emblem is 3" in diameter.

196.00-G8. Same prices as decals above.

SAFETY DECALS

- S- 1—Sound Warning at Corners and Aisle Crossings
- S- 3—Do Not Talk To or Distract Operator
- S- 4—Before Starting Be Sure Everyone Is in the Clear
- S- 5—No Riders
- S- 6—Keep Tools in Safe Condition and in Proper Place After Use

- S- 7—Keep Floor Clean Around This Machine
- S- 8—First Aid Kit
- S- 9—Only Authorized Persons May Change Fuses or Make Repairs
- S-10—Keep This Space Clear
- S-11—Deposit Waste Material Here
- S-13—Avoid Falls. Walk—Do Not Run—Use the Handrail
- S-14—Please Keep Your Locker Clean

CAUTION DECALS

- C- 1—Shut Off Machine When Not in Use
- C- 2—Fire Door—Do Not Block
- C- 3—Shut Off Engine Before Refueling
- C- 4—To Be Operated Only by Authorized Employees
- C- 5—Pull and Lock Switch Before Oiling, Adjusting or Repairing Machine
- C- 6—Use Brush to Remove Chips

- C- 7—Stop Machine Before Making Adjustments
- C- 8—Use Fuse Puller to Remove Fuses
- C- 9—Do Not Operate Without Guards
- C-10—Keep Guards in Correct Adjustment
- C-13—Ground Equipment Before Use
- C-14—Do Not Use Near Electrical Equipment
- C-17—Do Not Open While Machine Is in Motion

DANGER DECALS

- D- 1—Do Not Wear Gloves While Operating This Machine
- D- 2—High Voltage
- D- 4—Keep This Guard in Place
- D- 6—Wear Goggles While Operating This Machine
- D- 7—Flammable—Keep Flames and Heat Away
- D- 8—Corrosive Liquids—Use Personal Protective Equipment

- D- 9—230 Volts
- D-10—440 Volts
- D-12—No Smoking
- D-13—Wear Goggles in This Area
- D-14—Oxygen—Keep Oil and Grease Away
- D-15—Acid
- D-16—Caustic
- D-17—Replace Guard Before Using Machine

FIRE DECALS

- F-1—For Wood, Paper, Textiles and Rubbish (Class A Fires) Not Electrical Equipment
- F-2—For Wood, Paper, Rubbish and Burning Liquids (Class A & B Fires) Not Electrical Equipment

- F-3—For Burning Liquids (Gasoline, Oil and Paint and Electrical Equipment) (Class B & C Fires)
- F-4—Sprinkler Valve—Do Not Close Unless Authorized

you can really *sell* safety with these illustrated safety talks!

Safetygraphs



Safetygraphs are visual aids for training small groups. They are easel presentations which employ time-tested methods developed by leading sales organizations to make their sales stories understandable and dramatic . . . and used successfully by the U. S. Army in training millions of World War II recruits rapidly and thoroughly.

Safetygraphs are complete within themselves and ready for use at a moment's notice. They consist of large (18" x 24") multicolor and spiral bound pages that turn easily and lie flat on a strong and durable easel which serves also as a carrying case.

Talks and illustrations are sprinkled with humor to insure audience attention . . . to help you put across your safety message in a smooth, interesting and convincing manner.

Order by title and stock number. *Safetygraphs only, any selection, 1 to 9, each: \$10.00; 10, \$9.50; 100, \$9.25. 174.99*
Safetygraph easels, only 1 to 9, each: \$4.50; 10, \$4.00. 174.98
Safetygraph Blanks, only, 1 to 9, each: \$3.85; 10, \$3.35.

HOW TO USE THEM...



Set the Safetygraph on any flat surface. Open the cover and the brown leatherette portfolio becomes an easel with an interesting illustration facing your audience. Demonstrations, questions and group participation suggestions are contained in instruction guides.



Anyone who can read can give a convincing safety talk. All you have to do is read aloud the safety talk printed in large and easy-to-read type, on the back of each page while your audience looks at the cartoons and photographs on the front side.

174.51 HOW TO LIFT

Teaches workers efficient and safe procedures for lifting, handling and carrying materials. The rules stressed are: keep hands clear; get a good grip; have a good footing; bend your knees; keep the load close to you; get help for heavy or awkward loads.

174.53 OPERATING A POWER PRESS

Emphasizes guarding—types of guards, and why the operator should use them. Also discussed are: use of sticks to remove pieces that are caught; special tools to insert and remove work; preventing damage to dies; proper dress; handling stock parts.

174.54 WEARING GOGGLES

A head long attack on complaint about wearing safety goggles. It shoots holes in time-worn excuses like: "they're too heavy"... "this job'll only take a minute." With humor and logic, it wins over non-believers and reconverts backsliders who have been careless about wearing goggles.

174.55 PLANT HOUSEKEEPING

Stresses it's up to workers to wipe up grease, put scrap in a box, keep the work place clear, and lockers clean. It discusses the safe way to stack materials; start foundations; keep piles straight; cross-tie layers; step-back of tall piles; keep aisles and fire exits clear.

174.56 LADDER SAFETY

Teaches the four primary rules of ladder safety: 1. Select the right ladder; 2. Inspect it before use—look for weakness or faulty repairs; 3. Secure it—place at proper angle, use non-slip feet, or lash; 4. Use properly—climb the safe way, secure tools.

174.57 USING FIRE EXTINGUISHERS

Explains the classes of fires, what type of extinguisher to use for each, and how to use it. It also discusses what to do in case of fire. The safetygraph is most effective when used in a two-part course, part 2 being outdoor demonstrations of extinguishers on actual fires.

174.58 ACCIDENTS DON'T HAPPEN

Gets right down to the grass root of safety—to the basic principle that accidents don't happen, they are caused. It discusses unsafe conditions and unsafe acts, cites specific instance of each type, and shows how each accident could have been prevented.

174.59 COMMON HAND TOOLS

Shows how to avoid hand and finger injuries caused by hammers, wrenches, chisels, knives, files, and screw drivers. The four ways to prevent hand tool accidents are: use the right tool; use a tool in good condition; use it the right way; keep in a safe place.

174.60 PREVENTING FIRE

Explains how it can be prevented by controlling two of the three fire components—heat and fuel. It discusses the major sources of heat in industrial fires; electricity; smoking, and the types of fuel involved in most industrial fires—greasy rags, flammable liquids, etc.

174.61 TOE PROTECTION

A persuasive presentation of the facts about safety shoes. It examines all the common objections to wearing safety shoes, and proves that each is based on unfounded prejudice or lack of information. It also shows some off-the-job uses for safety shoes.

174.63 INDUSTRIAL POWER TRUCKS

Discusses parking, loading, inspecting trucks, and safe driving practices. Illustrates the wrong ways to use a truck. Covers operating in close quarters, the safe way to approach and enter an elevator, etc. Drives home the main causes of plant truck accidents.

174.64 ONLY A SCRATCH

Goes to work on how to get workers to use first-aid on little injuries. Shows how to treat different types of wounds such as punctures, lacerations, and incisions. Sells workers on the idea that protecting themselves against infection is a sign of good sense.

174.65 WANTED—SAFE WORKERS

An informal session on what makes a safe worker. Deals with the worker who understands his job and does it well, and with the fellow who learns the hard way. Covers, in story style, how to act at work, and dress at work. Stresses cooperation between fellow workers.

174.66 FALLS

Shows that falls are one of the most serious sources of industrial accidents. It covers everything from plunging down unguarded elevator shafts to stumbling over objects. Shows how to prevent falls and discourages the use of makeshift equipment and horseplay.

174.67 DOES YOUR ACCIDENT SHOW?

Attacks the employee's attitudes which lead to accidents. It shows employees the reasons why people pull boners that can lead to injury: being "safety lazy," failure to follow rules, horseplay, distractions, failure to think, not feeling up to par.

174.68 MY ACHING BACK

Tells the subject of back injuries—why and how they happen. The drawings show how the back functions, and what happens when it is strained or twisted. An effective way to drive home the proper ways to lift, and the need for securing help in lifting.

174.69 STATIC SPARKS AND FLAMMABLE LIQUIDS

It spares no punches in showing your workers how static sparks are caused, how they ignite flammable liquids, how to bond against these dangers. The information will sink in, take hold, and help every time workers transfer flammable liquids.

174.70 OFF-THE-JOB SAFETY

Don't mince words. It is designed to help stop the off-the-job accident toll, at home, in recreation and in traffic. It illustrates hazards to watch out for, and makes workers stop, think and watch their step—and play it safe off-the-job.

174.71 SAVE YOUR OWN SKIN

Discusses the causes and danger of dermatitis. It shows workers how to protect their skin; the need for protective clothing, and for keeping it clean and in good condition; discourages the use of solvents, and encourages the use of protective creams, and first aid for all skin infections.

174.72 CHEMICAL SPILLS AND SPLASHES

Emphasizes the dangers of liquid chemicals, their safe handling and transporting. It instructs workers to clearly identify them; how to empty drums, carboys and tank cars; what to do when chemicals are spilled, splashed on workers, or if they are overcome by chemical vapors.

174.73 TWO METHODS OF ARTIFICIAL RESPIRATION

Large line drawings and clear-cut instructions simplify the job of teaching the Arm-Lift and Hip-Lift methods of artificial respiration. This Safety-graph is the only available visual training aid covering these methods, which are now officially accepted by virtually every national organization concerned with artificial respiration.

174.74 RAMP SAFETY

Covers a wide range of ramp equipment—fork lifts, cargo conveyors, passenger loading stands, tractors and freight carts, air conditioners and fuel trucks. Pertinent points in safe fueling operations, cargo handling and general ramp procedure are brought to light. Suitable for refresher training or indoctrination of new aviation personnel.

174.75 TWO WHEEL HAND TRUCKS

Shows the correct use and handling of a two-wheel hand truck. It discusses how to load and unload materials, difficult loads, the proper way to lift materials, careful procedure at corners and intersections and the proper use of hand trucks on inclined surfaces.

174.76 HOW TO CONTROL BLEEDING

The latest techniques for stemming capillary venous and arterole bleeding. Includes the latest research by the Committee of Medicine of the National Research Council.

174.77 FIRST AID TREATMENT FOR BURNS

Discusses what to do for burns, frost-bite, radiation and electric burns, as well as chemical burns of the eye and skin.

174.78 TRANSPORTATION OF INJURED PERSONS

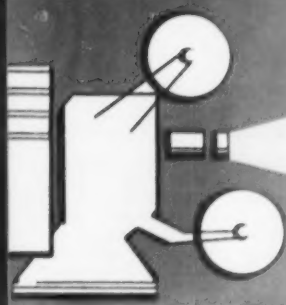
Covers examination of conscious and unconscious persons to determine spine or neck injuries, use of common industrial equipment to transport injured persons.

279.21 WHY BACK INTO TROUBLE?

An illustrated safety talk for commercial truck drivers. It gets down to actual cases and teaches drivers when and why to avoid unnecessary backing, hazards to look for, curb parking hazards, how to back safely, and tells the safe backing speeds.

279.22 YOUR MARGIN FOR SAFETY AT INTERSECTIONS

Contains suggestions for commercial vehicle drivers on how to prevent accidents at intersections. It warns to be suspicious of all intersections, to avoid sudden stops, to obey traffic signals, how to make left turns, and to be on the alert for pedestrians.



Safety

TRAINING FILMS

GENERAL INFORMATION

Trainees learn as much as 55% faster, and remember up to 70% more—and longer—when films are used to help teach. This means that you can cut down new-worker safety training time, give fewer refresher courses, and still get better results by using films.

Each National Safety Council film has been carefully planned to do a specific job in your safety program—to serve as an effective discussion springboard for supervisor and worker meetings.

All fundamental and general interest films are designed to cut across industry lines. Specific industry backgrounds are minimized; emphasis is on safe practices—not environment.

Film Types

Most of the films described on the following pages consist of a 35mm filmstrip and a 33-1/3 RPM recording. Many of these films are also produced in 16mm sound-motion. All 35mm sound slide-films released since 1948 can be shown with either a standard projector or the automatic 30-50 low frequency models. One side of the sound slidefilm recordings uses an inaudible signal to automatically advance each picture in synchronization with the narration.

Rentals

Council films may be rented from Association Films, Inc. Orders and correspondence regarding film bookings should be addressed

to the nearest of the following local offices of Association Films:
EASTERN AREA: Broad and Elm, Ridgefield, New Jersey
MIDWESTERN AREA: 561 Hillgrove Ave., La Grange, Ill.
WESTERN AREA: 799 Stevenson St., San Francisco 3, California
SOUTHWESTERN AREA: 1108 Jackson St., Dallas 2, Texas

The following rental charges are per week or fraction thereof, per film: 16mm, B&W—\$10.00; 16mm, color—\$20.00; 35mm SOUND SLIDEFILM—\$5.75. Invoices for the rental fee will be issued by Association Films, and such charges may be deducted from Service Credit accounts at the Council. If you wish a rental charge to be deducted from your Service Credit, please mark your order: "Bill National Safety Council." NOTE—Canadian members can obtain rental prints from the Canadian Film Institute, 142 Sparks St., Ottawa 4, Ontario. Only purchase prints will be sent from the Council into Canada.

Previews

If you wish to preview a film prior to purchasing, address your order to the Council, and be sure to specify that you want the film for preview purposes. The film will be sent to you by Association Films, Inc., and should be returned to them following your review. A new print will be sent when your purchase request is received. No rental fee will be charged if your purchase request reaches us within two weeks after you received the rental print. The regular rental fees (See "Rentals" above) will be charged if you do not purchase the film.

INDEX AND PRICES

| Stock Number | Title | Description | Single Copy | 2 to 9 | 10 or more | Page |
|--------------|--|-------------|-------------|----------|------------|------|
| 171.85 | All Out For Safety, 16mm, black and white, ea. | | \$ 65.00 | \$ 62.00 | \$ 60.00 | C-22 |
| 171.38 | An Accident Happens To Sam, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-40 |
| 171.39 | An Accident Happens To Sam, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-40 |
| 171.82 | Bar It Down, 35mm, color, silent, ea. | | 16.50 | 15.50 | 15.00 | C-41 |
| 171.60 | Blasting Safely in Mines, 35mm, silent, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-41 |
| 141.01 | Brain Beats Brawn, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-24 |
| 171.62 | Building Construction Safety, 35mm, silent, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-41 |
| 143.01 | Butterflies in Your Stomach, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-23 |
| 145.12 | Call 'Em On The Carpet, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-22 |
| 145.02 | Call 'Em On The Carpet, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-22 |
| 141.02 | Cause and Cure, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-24 |
| 171.05 | Cause for Alarm, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-41 |
| 171.06 | Cause for Alarm, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-41 |
| 278.18 | Champ Becomes Deaf and Blind, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-40 |
| 278.24 | Champ Becomes Deaf and Blind, 16mm, color, ea. | | 105.00 | 100.00 | 97.00 | C-40 |
| 171.63 | Construction Equipment Safety, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-41 |
| 171.49 | Decide To Be Safe, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-38 |
| 171.55 | Decide To Be Safe, 16mm, black and white, ea. | | 52.00 | 49.50 | 48.00 | C-38 |
| 141.03 | Doctor's Orders, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-24 |
| 171.88 | Down at the Office, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-40 |
| 171.07 | Easy on the Eyes, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-39 |
| 171.08 | Easy on the Eyes, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-39 |
| 142.02 | Everybody's Different, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-21 |
| 146.01 | Fact Finding Not Fault Finding, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-20 |
| 146.11 | Fact Finding Not Fault Finding, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-20 |
| 171.66 | Falling Ground, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-41 |
| 171.10 | Fifteen Minutes to Go, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-39 |
| 141.05 | Follow the Leader, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-24 |
| 171.12 | For Safety's Sake, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-41 |
| 146.02 | Foresight Not Hindsight, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-20 |
| 146.12 | Foresight Not Hindsight, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-20 |
| 145.11 | Fragile—Handle Feelings with Care, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-22 |
| 145.01 | Fragile—Handle Feelings with Care, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-22 |
| 171.13 | Freight Handling Safety, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-41 |
| 171.14 | Freight Handling Safety, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-41 |

| Stock Number | Title | Description | Single Copy | 2 to 9 | 10 or more | Page |
|--------------|--|-------------|-------------|--------|------------|------|
| 171.86 | Friendly Machines, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-40 |
| 171.87 | Friendly Machines, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-40 |
| 171.48 | Get A Grip on Yourself, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-38 |
| 171.54 | Get A Grip on Yourself, 16mm, black and white, ea. | | 52.00 | 49.50 | 48.00 | C-38 |
| 171.15 | Giant Hands of Industry, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-41 |
| 144.01 | Gray Day for O'Grady, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-22 |
| 144.02 | Gray Day for O'Grady, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-22 |
| 141.04 | Guard Duty, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-24 |
| 171.17 | Handle with Care, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-41 |
| 142.00 | Human Factors in Safety, set of 6 films, 35mm, black and white, set ea. | | 132.00 | 125.00 | 118.00 | C-21 |
| 171.83 | If You Took Your Family to Work, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-40 |
| 171.84 | If You Took Your Family to Work, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-40 |
| 145.13 | It's An Order, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-22 |
| 145.03 | It's An Order, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-22 |
| 171.67 | Jackhammer Safety, 35mm, silent, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-41 |
| 171.68 | Keep 'Em Rolling, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-41 |
| 171.19 | Keep It Clean, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-39 |
| 143.02 | Key to Good Speaking, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-23 |
| 171.69 | Laboratory Glassware, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-41 |
| 171.47 | Let Habit Help, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-38 |
| 171.53 | Let Habit Help, 16mm, black and white, ea. | | 52.00 | 49.50 | 48.00 | C-38 |
| 171.21 | My Eye Deal, 35mm, color, ea. | | 32.50 | 31.00 | 30.00 | C-41 |
| 278.15 | Ninety Day Flash, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-40 |
| 278.21 | Ninety Day Flash, 16mm, color, ea. | | 105.00 | 100.00 | 97.00 | C-40 |
| 171.22 | No Laughing Matter, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-39 |
| 146.03 | No One Else Can Do It, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-20 |
| 146.13 | No One Else Can Do It, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-20 |
| 143.03 | Now You're Talking, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-23 |
| 143.04 | On Your Feet, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-41 |
| 171.80 | Operating Heavy Duty Trucks Safely, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-41 |
| 142.01 | People Are All Alike, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-21 |
| 171.44 | Personal Side of Safety, 35mm, black and white, set of 5 films, set, ea. | | 80.00 | 75.00 | 72.50 | C-38 |
| 171.50 | Personal Side of Safety, 16mm, black and white, set of 5 films, set, ea. | | 235.00 | 225.00 | 220.00 | C-38 |
| 144.03 | Pick Your Safety Target, 35mm, color, ea. | | 32.50 | 31.00 | 30.00 | C-22 |
| 144.04 | Pick Your Safety Target, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-22 |
| 144.05 | Pick Your Safety Target, 16mm, color, ea. | | 105.00 | 100.00 | 97.00 | C-22 |
| 143.05 | Power of Speech, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-23 |
| 141.06 | Principles and Interest, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-24 |
| 141.07 | Production with Safety, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-24 |
| 278.14 | Professional Safe Driving Series, 16mm, black and white, set of 5 films, set ea. | | 300.00 | 290.00 | 285.00 | C-40 |
| 278.20 | Professional Safe Driving Series, 16mm, color, set of 5 films, set ea. | | 485.00 | 470.00 | 460.00 | C-40 |
| 141.08 | Right Dress, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-24 |
| 143.06 | Ring the Bell, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-23 |
| 171.43 | Safe As You Make It, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-40 |
| 171.92 | Safe Handling of Drums, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-39 |
| 171.26 | Safe Handling of Materials, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-39 |
| 171.74 | Safe Haulage in Coal Mines, 35mm, silent, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-41 |
| 171.27 | Safe in Hand, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-39 |
| 144.06 | Safety Doesn't Happen, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-22 |
| 146.00 | Safety and the Foreman, set of 4 films, 16mm, black and white, set ea. | | 240.00 | 230.00 | 225.00 | C-20 |
| 146.10 | Safety and the Foreman, set of 4 films, 35mm, black and white, set ea. | | 85.00 | 82.00 | 80.00 | C-20 |
| 142.03 | Safety Case Histories, 35mm, black and white, ea. | | 32.50 | 31.00 | 30.00 | C-21 |
| 141.09 | Safety Is In Order, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-24 |
| 141.00 | Safety Management For Foremen, set of 10 films, 35mm, black and white, ea. | | 190.00 | 180.00 | 165.00 | C-24 |
| 171.45 | Safety Record, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-38 |
| 171.51 | Safety Record, 16mm, black and white, ea. | | 52.00 | 49.50 | 48.00 | C-38 |
| 142.04 | Secret of Supervision, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-21 |
| 278.16 | Skill Is Your Business, 16mm, black and white, ea. | | 65.00 | 62.50 | 60.00 | C-40 |
| 278.22 | Skill Is Your Business, 16mm, color, ea. | | 105.00 | 100.00 | 97.00 | C-40 |
| 278.11 | Smooth Operation, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-41 |
| 278.12 | Smooth Operation, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-41 |
| 171.90 | So You're New Around Here, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-39 |
| 171.91 | So You're New Around Here, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-39 |
| 143.00 | Speaking of Safety, set of 6 films, 35mm, black and white, set ea. | | 132.00 | 125.00 | 118.00 | C-23 |
| 141.10 | Stop, Look and Listen, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-24 |
| 171.29 | Stop the Fire Thief, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-39 |
| 171.30 | Stop the Fire Thief, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-39 |
| 145.10 | Supervising for Safety, set of 3 films, 35mm, black and white, set ea. | | 65.00 | 62.00 | 60.00 | C-22 |
| 145.00 | Supervising for Safety, set of 3 films, 16mm, black and white, set ea. | | 180.00 | 170.00 | 165.00 | C-22 |
| 278.17 | Take A Look At The Odds, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-40 |
| 278.23 | Take A Look At The Odds, 16mm, color, ea. | | 105.00 | 100.00 | 97.00 | C-40 |
| 171.57 | Take Time To Live, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-40 |
| 171.56 | Take Time To Live, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-40 |
| 142.05 | Teaching Safety On The Job, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-21 |
| 142.06 | Teamwork for Safety, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-21 |
| | To Your Health, 35mm, black and white, ea. | | | | | C-41 |
| 171.46 | Two Steps To Safety, 35mm, black and white, ea. | | 16.50 | 15.50 | 15.00 | C-38 |

| Stock Number | Title | Description | Single Copy | 2 to 9 | 10 or more | Page |
|--------------|--|-------------|-------------|--------|------------|------|
| 171.52 | Two Steps To Safety, 16mm, black and white, ea. | | 52.00 | 49.50 | 48.00 | C-38 |
| 171.89 | Vacation Safety, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-40 |
| 278.19 | Watch Your Handicap, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-40 |
| 278.25 | Watch Your Handicap, 16mm, color, ea. | | 105.00 | 100.00 | 97.00 | C-40 |
| 146.04 | What They Don't Know Can Hurt, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-20 |
| 146.14 | What They Don't Know Can Hurt, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-20 |
| 171.35 | What's Your Safety I.Q.? 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-39 |
| 171.36 | What's Your Safety I.Q.? 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-39 |
| 171.37 | Woodworking Machines, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-41 |
| 171.00 | Worker Training Series, 35mm, black and white, set of 10 films | | 200.00 | 193.00 | 187.00 | C-39 |
| 171.01 | Any 9 films in series | | 192.00 | | | |
| 171.01 | Any 8 films in series | | 171.00 | | | |
| 171.01 | Any 7 films in series | | 150.00 | | | |
| 171.01 | Any 6 films in series | | 132.00 | | | |
| 171.01 | Any 5 films in series | | 113.00 | | | |
| 171.79 | Woven With Safety, 35mm, black and white, ea. | | 23.50 | 22.50 | 21.25 | C-41 |
| 171.40 | You Can Take It With You, 35mm, color, ea. | | 32.50 | 31.00 | 30.00 | C-40 |
| 171.41 | You Can Take It With You, 16mm, black and white, ea. | | 65.00 | 62.00 | 60.00 | C-40 |
| 171.42 | You Can Take It With You, 16mm, color, ea. | | 105.00 | 100.00 | 97.00 | C-40 |



SAFETY RECORD

Emphasizes that award winning safety records don't "just happen." They are the results of careful planning and hard work. They are the accomplishment of the individual worker who adopts a "be safe" attitude for himself and towards his fellow workers. 15 minutes.



2 STEPS TO SAFETY

This film shows that you've got to mix determination with knowledge and experience. **KNOW YOUR JOB**—be thoroughly aware of the possible hazards; how to avoid them. **KNOW YOURSELF**—the personal peculiarities that make for accidents; how to control them. 15 minutes.



LET HABIT HELP

Explains the steps in developing a new habit pattern; how to erase an unsafe habit. Each routine task is accomplished largely by one or more of the habit sequences we form. It's as easy to build safety into your habits as it is to do things unsafely. 15 minutes.



GET A GRIP ON YOURSELF

Enlarges on the idea of self understanding. Shows how feelings and emotions can undermine determination. Explains how to recognize the danger signals in time—make your emotions work for instead of against you. 15 minutes.



DECIDE TO BE SAFE

Wraps up the formula for personal safety with a quick review of the key points made in the previous films. To make it all work, it explains, each of us has to underline our efforts with determination—a sincere decision to be safe. 15 minutes.

"PERSONAL SIDE OF SAFETY"

corrects unsafe attitudes by helping your workers to **ANALYZE** and **UNDERSTAND** themselves

With a front-door approach and stair step logic, **PERSONAL SIDE OF SAFETY** reduces this complex attitude business to easily understood fundamentals. The five films build a convincing formula for personal safety that shows a worker that no one can keep him from getting hurt if he doesn't help. He must know his job and know himself; be the master of his habits and emotions; believe in the power of safety; **WORK AT IT!** The message is believable because each worker sees himself in the humorous cartoon sequences and actual work scenes. It's painless training at its best. The series is available as a set of 35mm sound slidefilms and as a set of 16mm sound motion pictures.

10 FILM WORKER TRAINING COURSE

EVERYTHING you need to run a complete course in safety fundamentals.

Ten of the 35mm sound slidefilms produced by the Council have been selected for use, in a series, as a basic safety training course for workers. By progressing step-by-step through the course, workers obtain a well-rounded fund of safety knowledge in amounts they can absorb and remember. The

course can be put on easily, and with practically no time-consuming preparation. With the leader's manual provided for each subject, anyone can do an effective job. The set is packed in a sturdy leatherette-bound carrying case.



FIFTEEN MINUTES TO GO

Dramatically compares the odds of getting an infection in a small cut or scratch with "Russian Roulette". They're in your favor, but would you take the chance? Actual photos of wounds, burns, and scratches before and after infection show your workers that it's smart to invest "15 minutes" to get immediate medical attention. 35mm, 15 minutes.



EASY ON THE EYES

Begins with a dramatic, emotional appeal that shows what it means to be blind or lose the sight of an eye. After this impact, your workers will be an attentive audience to the job-by-job explanation of the type of eye protection required; the three easy rules for eye safety. 35mm, 20 minutes. Also 16mm sound motion.



NO LAUGHING MATTER

Here's a film that covers falls from every angle. It shows how to stop falls in every work situation: trucks and trailers, ladders, scaffolds, elevator shafts, stock piles, stairs. Emphasizes importance of keeping the work area clean; eliminating oil and grease on floors. 35mm, 15 minutes.



STOP THE FIRE THIEF

Actual fire scenes, illustrating how costly and terrible fire can be, lead into a discussion of what can be done to root out the hazards encountered with flammable liquids, electricity, hot slag, sparks, friction, etc. 35mm, 13 minutes. Also 16mm sound motion.



SAFE HANDLING OF MATERIALS

Shows how to avoid the three major kinds of injury—to hands, feet, and back—that can result from improper handling of materials. Covers lifting and carrying techniques, precautions, use of gloves and safety shoes. 35mm, 15 minutes.



SAFE IN HAND

Part I, Machinists' Tools, shows how to pick the right tool for the job; how to use each safely. Covers all the common hand tools. Part II, Maintenance Tools, discusses the heavier tools used by plant maintenance crews. 35mm, 12 minutes for each part.



WHAT'S YOUR SAFETY I. Q.?

This film gets your workers thinking about off-the-job safety. After each set of pictures is flashed on the screen, the audience is given 15 seconds to spot the safety errors. They then check their answers as the narrator identifies the hazards; explains how to avoid them. 35mm, 15 minutes. Also 16mm sound motion.



CAUSE AND CURE

Accidents have definite causes and definite cures. This film shows—with actual case histories—how supervisors and workers can root out accidents before they happen; what to look for and how to correct it. 35mm, 17 minutes.



KEEP IT CLEAN

Sells the idea that it's easy to keep the plant ship-shape if everyone cooperates. Presents an easy-to-follow housekeeping checklist keyed to a series of before and after shots of typical plant scenes. Emphasizes that a clean plant makes the job easier, safer, a lot more pleasant. 35mm, 15 minutes.



SO YOU'RE NEW AROUND HERE

An indoctrination film for newly hired workers. Presents sound, understandable reasons for having a plant safety program, and stresses the importance of each worker's cooperation in the program. Running time 10 minutes. 16mm black and white, motion picture, or 35mm sound slidefilm.

The Professional Safe Driving Series

—5 safety psychology films aimed squarely at experienced drivers

The late Wilbur Shaw, former President of the Indianapolis Speedway Corporation and three-time winner of the 500 mile classic, narrates this popular film series that dramatizes the whys and hows of safe driving. Shaw demonstrates that the right kind of practice, sensible health habits, concentration and correct mental attitude are as necessary to keep a professional driver from having accidents as to keep a professional athlete in winning form. Big name baseball, bowling and golf stars contrast the fine points of their sports with the skill and finesse the "pro" drivers rely on to maintain their safety records. Available in 16mm, color or black and white. Running time of each film, 10 minutes.



THE CHAMP BECOMES DEAF AND BLIND

Lloyd Mangrum points out that the ability to shut out distractions makes the difference between a championship golfer and a duffer—and that concentration is just as important to pro drivers as it is to pro golfers.

WATCH YOUR HANDICAP

Ned Day explains that drivers, like professional bowlers, can handicap their performances through lack of sleep, improper food and health habits. The film correlates clean living habits with clean driving records.

SKILL IS YOUR BUSINESS

Wilbur Shaw illustrates that with relaxed coordination, professional driving skill can become automatic—can be maintained day after day regardless of adverse traffic conditions or unexpected emergencies.

NINETY-DAY FLASH

Paul Richards, prominent baseball figure, shows how a slight miscalculation repeated often enough can become a disastrous habit, and how a small driving error, repeated frequently will lead inevitably to accidents.

TAKE A LOOK AT THE ODDS

The concluding film in the series shows that the right attitude towards safety is the best insurance against accidents—proves that the odds are always in favor of the driver who plays it safe.

8 GOOD FILMS WITH WIDE AUDIENCE APPEAL

VACATION SAFETY

A vacation is for recreation and relaxation—but it can become a nightmare of sunburn, strains and sprains. The film points out how the worker, the head of the family, must take the roles of life guard, athletic instructor, smallboat expert, forest ranger, etc., to keep his family safe and sound. Offers plenty of tips on filling each role—and also reminds the worker to take care of himself, too. 10 minutes running time. 16 mm black and white motion picture.

IF YOU TOOK YOUR FAMILY TO WORK WITH YOU

The film evolves about a work day in the life of Jerry Reynolds. Jerry keeps imagining he sees his son, Butch, watching him do things that violate the safety rules. He realizes that he should practice safety on the job just as though his family were with him—waiting for him to break some of the rules he's been preaching to them. 13 minutes. Black and white. 35mm sound slidefilm. Also 16mm motion picture.

AN ACCIDENT HAPPENS TO SAM

Your workers will learn and laugh as the accident wise industrial nurse, Miss Miller, proves to skeptical Sam that accidents DON'T just happen. She first softens him up by showing him some "scare" pictures of major accident injuries; then follows up by explaining why they happened. By the end of the day, Sam's converted. 13 minutes. Black and white. 35 mm sound slide-film. Also 16mm motion picture.

SAFE AS YOU MAKE IT

Combines sound safety training with amusement park thrills by contrasting the safety of the high rides with the hazards of the safe-appearing things we encounter every day. Each individual must observe the simple safety rules, weed out the hazards and not take foolish chances. This fast moving film captures interest. 10 minutes. Black and white. 16mm motion picture.

FRIENDLY MACHINES

An instructive and amusing combination of live action and animation. A number of shop machines—lift truck, punch press, and others—come to life to show their operators that safe work practices reduce accidents, and that machines themselves do not cause accidents unless poorly handled. Running time 10 minutes. 16mm black and white motion picture, or 35mm sound slide-film.

DOWN AT THE OFFICE

A secretary and her boss discover that some very minor things can cause some really serious falls. The films stresses the importance of good housekeeping and of picking up even such a seemingly harmless thing as a paper clip. 10 minutes running time. 16mm black and white motion picture.

TAKE TIME TO LIVE

The film proves that nine out of ten accidents in the home or on the street are caused by rushing. Figures from an actual test prove that allowing only 5 minutes more a day will prevent hurrying and give a worker time to get to and from work with ease and safety. 12 minutes. Black and white. 35mm sound slidefilm. Also 16mm motion picture.

YOU CAN TAKE IT WITH YOU

A humorous story of the worker who won't go home after a series of nerve-shattering home accidents. The boss finally convinces him that he CAN stop home accidents just like they do on-the-job. The film touches on all phases of home safety. 13 minutes. 35mm sound slidefilm in full color. Also 16mm motion in full color, or black and white.

Safety

training films

CAUSE FOR ALARM

Gives a step-by-step description of what to do in case of fire; how to turn in an alarm—then what to do while you're waiting for the professional fire-fighters. In simple terms, it explains what fire is, how they start. It shows workers how to recognize Class A, B, and C fires; the types of extinguishers—when and how they should be used. 13 minutes. 35mm sound slidefilm. Also 16mm motion picture.

HANDLE WITH CARE

Illustrates how to handle and move materials within the plant—the safe practices and precautions in lifting, carrying and piling, that must be observed, and use of personal protective equipment. 20 minutes. Black and white. 35mm sound slidefilm.

MY EYE DEAL

Color cartoon film that combines giggles with goggles. Tells the humorous story of Herkimer and how he learned—by a near miss—the value of wearing safety goggles. Here's 10 minutes of good entertainment with a moral that your workers won't soon forget. Full color. 35mm sound slidefilm.

GIANT HANDS OF INDUSTRY

Points out the two main causes of crane accidents: failure to use correct hand signals and failure to keep in the clear. Explains the three basic movements of a crane; the standard hand signals for each. The film goes on to give other safety tips: don't overload—check load-limit charts, how to place sling hooks, balancing long objects, and how to use hand hooks to guide load. These points are driven home by showing accidents that happened when someone "forgot." 15 minutes. 35mm sound slidefilm.

FREIGHT HANDLING SAFETY

Shows the worker how to lift, carry, and pile materials; how to safely operate a hand truck. The main emphasis is on freight car and motor truck unloading hazards: the safe way to open a freight car door; lowering the dock plate into position and anchoring it; how to guard against "sleepers." The film is in story form and features a luckless cartoon character named Happy Jack whose exploits will hold your workers' interest. 11 minutes. 35mm sound slidefilm. Also 16 mm motion picture.

FOR SAFETY'S SAKE

An excellent training film for all workers that use portable power tools. Shows how to use, inspect and maintain drills, grinders, saws and other electric hand tools with emphasis on the basic safety precautions. 15 minutes. 16 mm motion picture.

SMOOTH OPERATION

Driving a truck in city traffic needn't be a nerve-fraying ordeal. The secret is smooth operation—the skillful coordination of driver, vehicle and traffic. Sudden stops, starts and turns are apt to catch other drivers off guard. Stresses proper signaling and a quick check of the rear view mirror. A sportsmanlike attitude leaves the driver relaxed and smiling at the end of the day. 16 minutes. 35mm sound slidefilm. Also 16mm motion picture version.

OPERATING HEAVY DUTY TRUCKS SAFELY

A training film that covers the specialized operation of heavy earth-moving trucks. Filmed on-the-job, it covers the hazards operators will encounter; safe practices in driving, dumping, towing and loading. Suitable for construction companies, quarries, and all types of open-pit operations. 12 minutes. 35mm sound slidefilm.

CONSTRUCTION EQUIPMENT SAFETY

A dozen common mistakes account for three out of four accidents with construction equipment. Among the safety rules covered are: keep equipment a safe distance from power lines, make sure everyone is clear before you move machinery, block suspended parts before repairing or moving. A must film for all tractor, crane, dragline, shovel, and truck users. 20 minutes. 35mm sound slidefilm.

BUILDING CONSTRUCTION SAFETY

Aimed directly at the old superstition that each story of a building is paid for with the life of a worker. Covers demolition, steel scaffolding, ladders, unguarded floor openings, concrete placement, material hoists, housekeeping and other factors. 36 frames. Black and white. 35mm silent slidefilm.

LABORATORY GLASSWARE

Many laboratory accidents are caused by improper handling of glass equipment. This film shows the simple precautions to observe: wear gloves, fire-polish sharp edges, don't try to force glass into the wrong size rubber hose, loosen tube from stopper before you try to take it out, clear solvents from glassware before using, clamp equipment carefully, clean up broken glass immediately. 10 minutes. 35mm sound slidefilm.

WOODWORKING MACHINES

Covers all phases of safety in the woodshop from guards and machine operation to housekeeping and eye protection. Gus, an old, safety-wise woodworker, takes two new

safety committee recruits on a machine-by-machine tour of the plant. With actual demonstrations, he shows them the importance of guards; how the work, as well as the safe practices to follow in using saws, splitters, jointers, shapers, and planers. 17 minutes. 35mm sound slidefilm.

FALLING GROUND

Deals with prevention of rock and ore falling from back and side of mine openings—the biggest hazard in the mining industry. Shows safe practices in detecting "loose", taking it down, and supporting it. 15 minutes running time. 35mm black and white sound slidefilm.

BLASTING SAFELY IN MINES

Demonstrates the know-how and skill necessary in using explosives. Shows how and where to store explosives—the precautions that must be taken. Black and white 35mm silent slidefilm.

SAFE HAULAGE IN COAL MINES

Covers all the safety factors involved in haulage operations. Stresses the importance of car and motor maintenance. Interest is heightened with real accident scenes. Black and white. 35mm silent slidefilm.

JACK HAMMER SAFETY

Illustrates the standard safe practices in drilling and blasting operations. Stresses the importance of keeping the jackhammer in good condition; protective equipment for the operator. 35mm silent slidefilm.

BAR IT DOWN

Deals with the most outstanding hazards found in most mining operations—falling rock or ore from drifts, slopes, and similar openings. Right and wrong methods of removing loose ore or rock are emphasized. Includes pictures of barring down under timber protection, using different length bars for different operations, standing clear of loose materials, etc. 35mm silent slidefilm, in color. Also available in 2" x 2" color slides.

KEEP 'EM ROLLING

Here's a film that will tell your freight car men both the big things and the little things they have to do to protect themselves and others from injury. The film stresses the precautions necessary in working near moving cars; use of blue warning flags; how to safely cross between cars. Also discusses the use of jacks and blocks; handling of coil springs; fall hazards; use of burner's torch, sledges and other tools; lifting with cranes and hoists. 15 minutes. 35mm sound slidefilm.

WOVEN WITH SAFETY

The safety committee of a large textile mill, meeting to discuss their over-all accident problem, agree that it's the little things that cause most of the accidents; that they can be stopped if the mill workers will heed the fundamental rules: never clean, repair, or adjust the parts of a machine while it is moving; keep guards in place; keep knives and scissors where they belong; lift properly; get first aid promptly; don't wear loose clothing near machines. 15 minutes. 35mm sound slidefilm.

TO YOUR HEALTH

Designed for use of industrial nurses to interest student nurses in problems of industrial health. Points out the advantages of complete examinations of workers before they go on a job. 8 minutes running time. 35mm black and white sound slidefilm.

posters

- Posters are aimed straight at the source of trouble—the underlying worker attitudes and the acts that lead to accidents.
- They bring interest, color and impact into your safety program.
- They cash in on the three basic rules for good advertising—Timeliness, Repetition, and Continuity, and
- They reach your entire audience many times each day at a low, low cost—driving safety messages home at the time and place to do the most good!

Industrial posters are produced in 3 sizes: "A" size, 8½" x 11½"; "B" size, 17" x 23"; and the 8 sheet Jumbo Poster described on the following page. (A 25" x 38" "C" size on Traffic Safety subjects is also available). Posters may be selected as needed, or use may be made of the automatic poster service in which Council staff engineers make selections each month for 56 different types of operations. See the Directory of Occupational Safety Posters, or write the Council, for full information on the automatic poster service.

Prices:

182.13 "A" size (8½" x 11½") 1 to 9, each: \$.15; 10, \$.092; 100, \$.063; 1000, \$.052; 5000, \$.046; 10,000, \$.04; 20,000 or more \$.037 each.
182.23—"B" size (17" x 23") 1 to 9, each: \$.30; 10, \$.22; 100, \$.185; 1000, \$.15; 5000, \$.115; 10,000, \$.098; 20,000 or more \$.086 each

POSTER FRAMES

Black enameled metal frames, made to fit "A" and "B" size Council posters. Frames are large enough to accommodate cardboard backing and a glass or plastic sheet in front of the poster.

034.01 Poster Frames, "A", 1 to 9, each: \$1.35; 10, \$1.15; 100, \$1.00.
034.02 Poster Frames "B", 1 to 9, each: \$1.95; 10, \$1.60; 100, \$1.30.

POSTER ELECTROS

You may obtain electrotypes of any poster illustrated in one color in the poster directory or in the NATIONAL SAFETY NEWS. Order by poster number, 1¾" x 2¾".

033.02 Poster Electros, 1 to 9, each: \$3.95; 10, \$3.65.

PAYROLL ENCLOSURES

Miniature black and white reproductions of safety posters. Select 12 different posters from those shown in one color in the poster directory or in NATIONAL SAFETY NEWS.

Enclosures are printed 12 to a sheet; then cut to 1¾" x 2½" size. Minimum order—1200 enclosures (100 sheets). Quantities of each of the miniatures selected must be identical. When more than one group of 12 are ordered, each group of 12 is priced as an individual order. See Directory of Occupational Safety Posters for details.

198.10 Payroll Enclosures, 1st 100 sheets, \$13.25; each additional 100 sheets, \$2.25.

DIRECTORY OF OCCUPATIONAL SAFETY POSTERS

Illustrates 756 posters in miniature, covering safety, fire prevention and health available from the Council. Classified and indexed for easy reference.

189.01 Directory of Occupational Safety Posters, 1 to 9, each: \$.60; 10, \$.45; 100, \$.35.



Jumbo Posters



So big they can't be missed—so colorful they compel attention! Anyone passing a Jumbo Poster just can't help but absorb its giant message of safety.

Jumbo Posters are 11 feet 8 inches wide by 9 feet 11 inches high, and come in 8, separate, easy to mount sheets. They are printed with inks and paper that are weather resistant for a minimum of 30 days. A subscription brings you 12

posters . . . a timely and hard-hitting message for each month of the year. Plans for putting up your own Jumbo Poster display board will be furnished upon request.

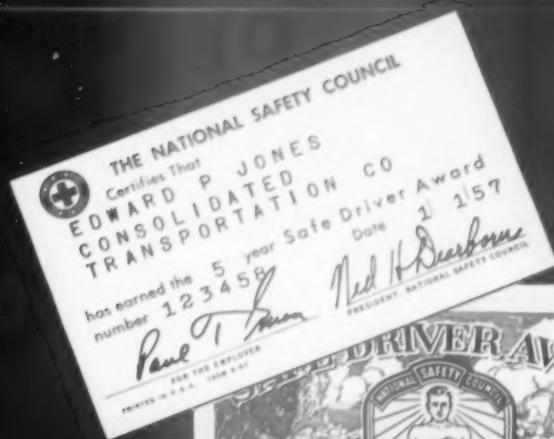
184.41 Jumbo Posters, annual subscription (12 posters) 1 to 9, each: \$62.00; 10, \$59.00; 100, \$56.00. **184.43** Jumbo Posters, single issues, 1 to 9, each: \$6.20; 10, \$5.90; 100, \$5.60.

A practical way to put safety on display inside and outside your plant. These big 3½ by 10 foot banners, printed in vivid, eye-catching colors can be put up easily anywhere. Made of heavy cloth, they can be used over and over, spotted throughout your work area and all approaches to and from your plant. Indoor style has 8 metal grommets, outdoor style, on extra-heavy cloth, has air vent flaps and ropes firmly stitched into top and bottom. Both styles are available on subscription.

188.51 Indoor Safety Banners, subscription (12 issues) each, \$85.00; 2 to 9, each \$79.50; 10 to 49, each \$76.00; 50 or more, each \$72.50. **188.63** Indoor Safety Banner, single issue each \$8.50; 2 to 9, each \$7.95; 10 to 49, each \$7.60; 50 or more, each \$7.25. **188.61** Outdoor Safety Banners, subscription each \$96.50; 2 to 9, each \$91.00; 10 to 49, each \$87.50; 50 or more, each \$84.00. **188.63** Outdoor Safety Banners, single issue, each \$9.65; 2 to 9, each \$9.10; 10 to 49, each \$8.75; 50 or more, each \$8.40.

Safety Banners





The COMPLETE MOTOR TRANSPORTATION PROGRAM

A simple and practical program for developing safe drivers. It provides the reminder materials that help build safe driving attitudes . . . it inspires the "want to" for safe driving . . . it supplies the information on administering a sound, driver safety program.

The National Safety Council Safe Driver Award is the HEART of the service. It is available only to certified drivers of companies using the Complete Motor Transportation Service. Your drivers will value this award because it is a credential, recognized from coast to coast and throughout Canada—proof of safe driving ability to management and to other drivers—the national emblem of expert professional drivers. You may give a Safe Driver Award and certificate to each qualified driver as soon as you enroll, or at any other time during the year. You have a choice of three styles—cap, keychain or lapel—in heavy gold plate and blue hard-fired jewelers enamel.

POSTER SETS

An automatic service keyed to specific operations and accident causing factors. Every month you receive at least one set, made up of two 'A' size (8½" x 11½") and two 'B' size (17" x 23") posters.

There are 8 types of sets: City Truck, Inter-city Truck, Sales Truck, City Bus, Inter-city Bus, Taxicab, Truck Terminal and Bus Terminal. You may order any one, or a combination of these sets. And if you have more than one terminal, you can order additional sets sent direct, at a nominal cost.

281.31 Poster sets, subscriptions, 1 to 4 sets, each: \$8.85; 5, \$7.45; 50, \$5.95

DRIVER LETTERS

. . . discussing a single safety topic of interest to professional drivers in each monthly issue—written in the language they use and believe. Subject matter is aimed at the normal high frequency and high severity accident causes, with seasonal hazards also coming in for their share of attention. Driver letters do important missionary work on home grounds when you mail them to your drivers. Truck, Bus, or Passenger editions are provided for each driver.

263.01 Driver letters, subscriptions, 1 to 9 each: \$.60; 10, \$.46; 100, \$.33; 1000, \$.30.



FOR EXPERTS ONLY

. . . a brochure given to each of your drivers, explains the rules governing the Safe Driver Award, and shows them how they can win it and keep on winning it year after year. It shows them how they will benefit personally by winning the award—makes them want to qualify. And it clearly explains the principles of "defensive driving" . . . the standard code of professional safe driving.

292.20 For Experts Only, 1 to 9, each: \$.26; 10, \$.24; 100, \$.20; 1000, \$.173.

SAFE DRIVER AWARD SHOULDER PATCH

An effective award to give your drivers, with their award pins. Worn on the sleeve of his jacket, it will show that he is a safe driver. An exact duplicate of the award pin, it is embroidered in rich yellow, blue, green and white silk on a beige cloth background. Size is 3 by 4 inches and is available in the same years as the award pins.

298.02 Safe Driver Award Shoulder Patch, 1 to 9, each: \$.58; 10, \$.46; 100, \$.40; 1000, \$.35.

SAFE DRIVER AWARD BANNER

Dress up your award presentation ceremony with this striking banner. The award emblem is shown in three glowing colors on a white satin background, edged with rich 2" gold bullion fringe. 40" x 41". Sold only to members receiving Complete Motor Transportation Service. **229.41 Safe Driver Award Banner, 1 to 9, each: \$17.50; 10, \$16.00.**

EXPERT DRIVER AWARD CERTIFICATES

Add glamour to the presentation of extended Safe Driver records by making it a special, always-to-be-remembered event. These attractive Award Certificates come in blue for 5, silver for 10, and gold for 15, 20, and 25 year Award winners. Name of winner is hand lettered on certificate, and drivers will take pride in displaying it to their family and friends. 8" x 10" size, suitable for framing. Available only to members receiving Complete Transportation Service.

298.03 Expert Driver Award Certificates, 1 to 9, each: \$1.25; 10, \$1.00; 100, \$.75.

DRIVER MEMO PADS

Make every note to your drivers a safety reminder. Each memo sheet on one of these 25 sheet pads carries a miniature reproduction of a motor transportation poster. 4" x 4½" in size, available only in lots of 48 pads, each pad bearing a different poster.

298.03 Driver Memo Pads, lots of 48, 1 to 9 lots, each: \$7.50; 10, \$7.25; 100, \$7.00.

SERVICE TABLE

| Number of Drivers | 1 to 9 | 10 to 49 | 50 to 99 | 100 or more |
|--|---|----------|----------|-------------|
| 1. Fleet Safety Manual, as issued Fleet Safety Guide, as issued | — | 1 | 1 | 1 |
| 2. Automatic Posters (no. of sets monthly) Each set (Two 8½ x 11½ inch Posters) (Two 17 x 23 inch Posters) | 1 | 1 | 2 | 4 |
| 3. Traffic Safety Magazine, monthly | 1 | 1 | 1 | 1 |
| 4. Sectional Enrollment No. of Sections | 1 | 1 | 1 | 1 |
| 5. Sectional News Letters No. of Copies, monthly | 1 | 1 | 1 | 1 |
| 6. Accident Facts, annually | 1 | 1 | 1 | 1 |
| 7. Accident Rates Pamphlet, annually | 1 | 1 | 1 | 1 |
| 8. Current Safety Topics, annually General | — | 1 | 1 | 1 |
| Morning Sessions | 1 | 1 | 1 | 1 |
| Section Meetings | 1 | 1 | 1 | 1 |
| 9. National Safety Calendar | 1 | 1 | 1 | 1 |
| 10. National Safety News | — | — | — | 1 |
| 11. Safe Driver Magazine | One Monthly Copy for Each Driver | | | |
| 12. Safe Driver Awards | One annually for Each Eligible Driver | | | |
| 13. For Experts Only (Award Rules) | One copy for each Driver this year and one copy for every 5 Drivers in subsequent years | | | |
| 14. Driver's Letter, Monthly | One Monthly Copy for Each Driver | | | |
| 15. Participation in the National Fleet Safety Contest | Contest begins July 1 each year and runs to June 30 of following year | | | |
| The items of service shown here may be varied from time to time by the National Safety Council to give the best service currently available. | | | | |

ANNUAL DUES

Complete Service is available at Prices shown in box at right. Organizations now holding an Industrial, Railroad or Public Employee membership may write for appropriate price.

| No. of Drivers | Cost per Driver |
|---------------------------------------|-----------------|
| 1 to 9 (per fleet, minimum charge) | \$33.00 |
| 10 to 19 | 3.70 |
| 20 to 29 | 3.10 |
| 30 to 49 | 2.50 |
| 50 to 74 | 2.30 |
| 75 to 99 | 2.15 |
| 100 to 199 | 1.85 |
| 200 to 399 | 1.65 |
| 400 to 699 | 1.55 |
| 700 to 999 | 1.50 |
| 1000 to 1999 | 1.40 |
| 2000 or more | 1.30 |

FLEET SAFETY MEMOS

A collection of useful suggestions and aids for bettering the safety program.

2. Fleet Safety Posters.
3. Publicity Procedure When Presenting Safe Driver Awards.
10. Protective Coloring for Commercial Vehicles.
13. Safety Meetings for Commercial Drivers.
18. Investigating Commercial Vehicle Accidents.

229.10 Fleet Safety Memos, each: \$.25.

REACTION TIMER

A 3" x 11½" card, divided into sections, which, when dropped by one man and caught by another, gives an accurate indication of the catcher's reaction time.

298.05 Reaction Timer, 1 to 9, each: \$.15; 10, \$.05; 100, \$.03; 1000, \$.02.

NATIONAL FLEET SAFETY CONTEST

The nation's largest fleet safety contest. Special divisions for passenger cars, bus, taxi, and for various types of truck operations. Write for entry information.

OTHER PROGRAM MATERIALS

—are described elsewhere in this catalog. Fleet Accident Record Forms, page 11; Fleet Safety Manual, page 13; 5 Minute Talks for Driver Supervisors, page 19; Safe Driver Magazine, page 25; Driver Training Booklets, page 30; Dash Cards and Dash Stickers, page 31; Safetygraphs, "Why Back Into Trouble," and, "Your Margin For Safety At Intersections," page 35; Professional Safe Driving Film Series, page 40; Safe Driver Award Merchandise, page 46; Hamilton Watches, page 47; National Fleet Safety Contest Award Key Tags, page 48; Traffic Safety Magazine, page 54.

Safety Incentives

These distinctive and useful awards and safety reminders are received with pride because they are management's recognition of a job well done.

Items bearing the National Safety Council Safe Driver Award emblem are available only to organizations receiving the Complete Motor Transportation Service, for presentation to drivers whose right to a Safe Driver Award has been certified.

The five items shown below may carry awards for any number of years of safe driving, from 1 to 28.



A. SAFE DRIVER AWARD LIGHTER

A top performer—rugged, dependable, and good looking, too. See "PARK LIGHTER" in the next column for details of features.

050.97. Prices, each: 1 to 9, \$2.80; 10, \$2.45; 100, \$2.42; 1000, \$2.41.

B. SAFE DRIVER AWARD CUFF LINKS

Unusually handsome "show-off" awards for "dress up" occasions. Gold plated, highly polished.

049.15. Prices, each: 1 to 9, \$2.30; 10, \$2.13; 100, \$2.08; 1000, \$2.07. Add 10% F. E. Tax to net price.

C. SAFE DRIVER AWARD BELT BUCKLE

The classic simplicity of this buckle is a fitting background for the intricate detail of the award. Gold plated, highly polished.

050.77. Prices, each: 1 to 9, \$1.90; 10, \$1.74; 100, \$1.69; 1000, \$1.68. Add 10% F. E. Tax to net price.

D. SAFE DRIVER AWARD TIE BAR

The most wanted of all jewelry items for men. It has the popular "alligator" type clasp, and is gold plated with a high lustre finish.

051.37. Prices, each: 1 to 9, \$1.50; 10, \$1.32; 100, \$1.27; 1000, \$1.26. Add 10% F. E. Tax to net price.

E. SAFE DRIVER AWARD MONEY CLIP

A striking item that is often presented along with bonus awards—cash, checks, stock, bonds. Highly polished gold plate.

050.57. Prices, each: 1 to 9, \$1.55; 10, \$1.41; 100, \$1.36; 1000, \$1.35. Add 10% F. E. Tax to net price.



PARK LIGHTER

A windproof lighter with construction, craftsmanship and features you would expect to find only in higher priced lighters, yet its low price puts it within reach of the most modest safety budget. Highly polished chrome finish. Unconditionally guaranteed. Available with 1/4" safety emblem in green and white jewelers enamels and the engraved slogan, "ALERT TODAY ALIVE TOMORROW." Each lighter is in a gift box.

050.96. Prices, each: 1 to 9, \$2.45; 10, \$2.10; 100, \$2.07; 1000, \$2.06.

GREEN CROSS LAPEL PIN

The Green Cross for Safety emblem, 3/8" in diameter. Polished gold finish with sparkling green and white hard-fired enamels. Clutch back pin makes it equally good for men or women—and it is also a highly practical tie tack.

044.01. Prices, each: 1 to 9, \$5.55; 10, \$3.39; 100, \$3.36; 1000, \$3.35.

SAFETY COMMITTEE BADGE

A handsome service emblem in glittering green and white gem-like hard-fired enamel. The outline and lettering have a highly polished gold finish and the entire badge is protective coated. Joint, pin and safety catch are nickel-silver. 1" in diameter. Individually carded and enclosed in a glassine envelope.

044.21. Prices, each: 1 to 9, \$8.66; 10, \$6.69; 100, \$6.63; 1000, \$6.61.





HAMILTON WATCHES

Here are two series of truly fine watches that meet every taste, every test, every budget. Each model has a gold-tooled dial with choice of 5, 10, 15, 20 or 25 year Safe Driver Award.

There are minor style variations in models within a series; major differences in case quality. All models are shock-resistant, water-proof, and anti-magnetic.

Member discount prices on these watches are 28% to 35% below retail values. Add 10% F. E. Tax to net price.

| STOCK # | MODEL | PRICES*: 1 to 9 | 10 or more |
|---------|-----------------------------------|-----------------|------------|
| 053.01 | Stormking I | \$150.00 | \$144.44 |
| 053.02 | Stormking II | 132.22 | 126.67 |
| 053.03 | Stormking III | 103.33 | 97.78 |
| 053.04 | Stormking IV (bracelet band) .. | 71.11 | 65.56 |
| 053.05 | Stormking IV (leather strap) .. | 63.33 | 57.78 |
| 053.10 | Automatic K202 | 132.22 | 126.67 |
| 053.11 | Automatic K250 | 114.44 | 108.89 |
| 053.12 | Automatic K375 | 85.56 | 80.00 |
| 053.13 | Automatic K404 | 74.44 | 68.89 |
| 053.14 | Automatic K506 (bracelet band) .. | 63.33 | 57.78 |
| 053.15 | Automatic K506 (leather strap) .. | 60.00 | 54.44 |

*Add 10% F.E.T. to net prices



HONOR GUARD PENCIL

A trim good-looking pencil which bears the Green Cross emblem on its distinctive military clip. Plastic cap and barrel; chrome clip, point, and trim. Thin-lead model only, unprinted with the slogan: "It's not the right way if it isn't safe." Green cap, ivory barrel. Individually boxed, guaranteed for life.

041.11. Each: 1 to 9, \$1.25; 10, \$1.15; 50, \$1.07; 100, \$1.00; 250, \$.95; 500, \$.92; 1000, \$.90.

AMBASSADOR PENCIL

An extremely handsome writing tool. Lustrous black barrel, chrome tip and engine-turned cap are enhanced by the Green Cross for Safety. Thin-lead model only, shipped in handsome gift box. Guaranteed for life.

041.12. Each: 1 to 9, \$2.50; 10, \$2.30; 50, \$2.14; 100, \$2.00; 250, \$1.90; 500, \$1.84; 1000, \$1.80.

BALL POINT PEN

A valued safety award that will give months of fine writing performance. Push-button retractable point, chrome clip and collar, ivory barrel and green cap in plastic. Available only with the slogan: "It's not the right way if it isn't safe." Green Cross for Safety affixed to clip to show when in breast pocket.

041.13. Each: 1 to 9, \$.75; 10, \$.63; 50, \$.58; 100, \$.49; 250, \$.48; 500, \$.47; 1000, \$.46.

DELUXE BALL POINT PEN

A distinguished combination of milled chrome cap and plastic barrel—a safety award with real eye-appeal. Top in quality as well as in appearance. The pen's push-button mechanism rotates the point for longer writing life. Uses a standard refill cartridge. Available with ivory barrel, with imprinted slogan: "It's not the right way if it isn't safe."

041.17. Each: 1 to 9, \$.95; 10, \$.85; 50, \$.77; 100, \$.69; 250, \$.67; 500, \$.65; 1000, \$.64.

Award Key Tags

Designed for the exclusive use of award winners these key tags are an attractive but low cost token of appreciation for a job well done. Giving one to each and every worker makes him feel that he had a personal part in setting the record and winning the award. He'll know his efforts are appreciated . . . he'll work all the harder for safety!

045.01 Award of Honor, 045.02 Award of Merit, 045.03 Commendation, 045.04 Industry Contest—1st place, 045.05 Industry Contest—2nd place, 045.06 Industry Contest—3rd place, 045.07 Fleet Contest—1st place, 045.08 Fleet Contest—2nd place, 045.09 Fleet Contest—3rd place, 100 to 249, each \$.20; 250, \$.16; 500, \$.14; 1000, \$.12; 5000, \$.11; 10,000 or more, \$.105.

These prices apply for one imprint; for change of imprint, \$.30 additional per change. Sold only to Award Winners.



GREEN CROSS Pocket Protectors

Executives, foremen, engineers, shipping room people—everybody and anybody who has ever had a shirt pocket soaked with ink from a fountain pen, smeared with color from crayon or grease pencil, or smudged by a lead pencil, will appreciate and use a Green Cross pocket protector. Made of tough, white plastic, embossed for a leather-like appearance, it holds as many writing instruments as a pocket will, and absorbs all the strains and stains that a pocket would otherwise receive. As a goodwill builder it's tops . . . finding favor with working men and their wives. And as a safety reminder it can't be ignored . . . the bright Green Cross and safety slogan pop out against the pure white background, making each wearer a veritable walking safety poster.

Pocket protectors are available with: "IT'S NOT THE RIGHT WAY IF IT ISN'T SAFE." They cost surprisingly little. Whether you use them as incentives, awards, prizes or goodwill builders, Green Cross pocket protectors will be received with enthusiasm and used with appreciation.

048.96 Green Cross Pocket Protectors, 10 to 99, each: \$.25; 100, \$.21; 250, \$.189; 500, \$.178; 1000, \$.167.



***A brand new
Safety game!***

Safety Cubes

Everybody likes to have fun and nothing's more fun than a game . . . so here's a brand new *safety* game, a game that means many hours of relaxation and recreation even while it reminds those playing it to keep safety in mind! Yes, thoughts of safety ride with every roll of these cubes, for in playing this fun-filled new game, people strive to make words connected with safety, score points and gain bonuses from letters that spell SAFETY.

You can use this exciting game to help you achieve your safety goal. It's an ideal way to start a brand new safety program or to add vitality to an old one. Use SAFETY CUBES as favors at employee picnics and parties, make them available for playing during rest periods, use them as incentive awards . . . your own imagination is the only limit to your use of SAFETY CUBES to promote accident prevention.

042.01 Safety Cubes games, 1 to 9, each: \$1.75; 10, \$1.35; 100, \$1.25; 1000, \$1.20.



Safety Playing Cards

When employees are relaxing at home, enjoying a game of cards with family or friends . . . you can make that an opportunity to slide safety thoughts into their minds! Safety Playing Cards provide you with 54 safety messages that reach into employees homes and remind them to "play it safe" at work, at home, everywhere!

Each card carries a full color, miniature reproduction of a popular safety poster—covering attitudes, lifting, first aid, falls, fire prevention, traffic safety—a well balanced selection of subjects that tell and retell the principles of accident prevention with each game that's played.

And these top-grade, durable decks can be used for all card games—bridge, canasta, rummy, poker, etc. Decks are available with metallic silver or metallic gold backs, highlighted with the Green Cross emblem. Both single and double decks are available, packed in handsome boxes, cellophane wrapped. As Christmas gifts, for achievement awards, picnic and party prizes, or simply as a goodwill gesture, giving decks of Safety Playing Cards to your employees is a good way of promoting safety around the clock!

042.11 *Safety Playing Cards, single decks, 1 to 9, each: \$1.15; 10, \$.95; 100, \$.89; 1000, \$.84. 042.21* *Safety Playing Cards, double decks, 1 to 9, each: \$2.15; 10, \$1.85; 100 \$1.72; 1000, \$1.60.*

Canadian organizations: add \$.14 per deck for Canadian excise and revenue tax, plus \$1.00 handling charge if order is for less than 100 decks. Cards will be shipped to Canadian Customs. Allow two weeks for delivery.

54 Safety Lessons with

- *Color*
- *Novelty appeal*
- *Usefulness*

that makes them stay in mind!

GREEN CROSS FLAGS

A Green Cross Flag is an effective way to advertise your company's safety record every day of the year, and to show to every employee your support of the safety movement. The flag can also be used to proclaim accident-free days and as a safety award—to be flown by the unit or department with the best safety record of the month.

The Green Cross Flag is 6 feet by 4 feet, of heavy cloth with double-stitched hemmed edges. A bright Green Cross is centered on both sides. Flameproofing on request.

031.01. Green Cross Flag. Each: 1 to 9, \$11.50; 10, \$11.00. Flameproofing each: \$.30.

GREEN CROSS STORM FLAG

A smaller flag that can be flown in any weather—wind and rain. It measures 2 feet by 3 feet and is made of heavy-duty waterproof cloth with double-stitched hemmed edges. The Green Cross is centered on each side.

031.31. Green Cross Storm Flag. Each: 1 to 9, \$5.75; 10, \$5.50.



GREEN CROSS DISPLAY EASEL. Here's the answer to the safetyman's need for a portable display—for use at safety meetings, training courses, and for permanent exhibits. The easel is 30" wide by 36" high, can be folded to approximately 20" by 30", and has a sturdy, folding type support so that it will stand by itself. It is light green in color and has a large Green Cross centered on the top.

035.20. Each: 1 to 9, \$3.75; 10, \$2.75; 100, \$2.50.

GREEN CROSS ELECTROS. Electrotypes of the Green Cross for Safety emblem

with the words, "Member National Safety Council" are available to members in a variety of sizes. Write to the Council for additional information. (See page C-61 for conditions of use of the Green Cross emblem.)

SAMMY SAFETY ELECTROS. Electrotypes of the safety boy, Sammy Safety, are available in 1 and 2 inch sizes. Use "Sammy" on letterheads, memo pads, newsletters and bulletins to identify safety messages.

033.05. 1". Each: \$2.00.

033.06. 2". Each: \$3.00.

AWARD OF HONOR—AWARD OF MERIT PENNANTS



031.23. Award of Honor Pennant

031.24. Award of Merit Pennant

Each: 1 to 9, \$21.00; 10, \$18.50; 100, \$18.00. These Pennants available only to winners of appropriate awards. Please specify the year in which the award was earned.

031.25. Stars for Award Pennants. Each: \$.60. Please specify the year to be designated on the Star.

If your organization has won a coveted Award of Honor or Award of Merit from the National Safety Council, you have earned the right to fly an Award Pennant.

Fly the pennant on your flagpole below the national flag, or use it as an indoor display—in reception room, cafeteria, trophy case, or other vantage point. The pennant will serve as a constant reminder to all employees of your safety achievement and of the recognition you have won.

Award pennants are a glistening white, made of heavy-duty nylon. The Green Cross for Safety emblem is made of nylon and is anchor-stitched on both sides of the pennant, as is a star showing the year of your award. All sides of the pennant are hemmed and double-stitched; the hoist side is canvas-enforced and has two metal grommets. The pennant measures 3 feet by 6 feet long.

If you have won the same award previously you may order stars for pennants showing the year in which the award was won. Winners of the former Distinguished Service to Safety Awards may order stars showing the year of DSS Awards to be affixed to the Award of Honor Pennant.



Sammy Safety!

**the dynamic,
animated emblem
of safety**

New!

3-D SAMMY SAFETY

This life size three-dimensional, three foot high figure of Sammy was the star of the show at the 1955 National Safety Congress. Molded of sturdy composition board and painted to life-like perfection he's a real attention getter. He excites the interest of every passer by, as he directs their attention to safety exhibits, bulletins or signs. There are two models of this almost-alive Sammy available, now—with and without animation. The animated figure raises and lowers its arm, pointing with eye catching emphasis. And watch for the announcement of the special talking 3-D Sammy. Equipped with a recorded tape, he'll repeat a short safety slogan of your choice.

Use the 3-D Sammy to put personality into your safety program. He'll be the talk of the plant when he goes to work for you.

The need for more showmanship to sell safety and safety organizations has become increasingly evident. Safety must compete for attention and interest, and the competition is getting tougher all the time. As "point-of-purchase" advertising material has increased in quality and quantity, safety messages have often suffered by direct or indirect comparison.

Sammy Safety, the Green Cross Kid, will help add the touch of razzle-dazzle which will attract proper attention to a serious safety message. By animating and personalizing the safety emblem Sammy also carries out a well-tested advertising principle—he'll help win quick recognition and emotional attachment for the Green Cross and for the safety movement which it emblemizes.

The advertising consultants and safety professionals who helped create the little fellow think SAMMY is a "natural"—exactly the gimmick that's needed to help put across ideas, direct attention to news, and whet the interest of passive observers in safety exhibits, bulletins and signs.

Specifications: All flat models are in full-color as shown, printed on 60-pound coated stock, varnished, and mounted on .065 cardboard. All have substantial, self-locking easels. 3-D models are in color as shown.

Sammy Safety Figurine 3D without Motion
035.32. Each: \$46.00.

Sammy Safety Figurine 3D with Motion
035.31. Each: \$69.00.

Sammy Safety Figurine 3D with Light
035.33. Each: \$69.00.



Model "B"
9 inches high

Model "E"
18 inches high

Model "C"
9 inches high

Model "G"
24 inches high



Model "D"
9 inches high



Model "A"
9 inches high



Model "D-1"
9 inches high
(without hat)

Model "F"
18 inches high
(with removable
hat)



MODEL "H"—overall dimensions 18 inches by 23 inches. Slots cut in fence will accommodate posters or placards up to 8½ inches by 11½ inches. Punch-out holes will hold standard 4 inches by 9 inches or 4 inches by 6 inches pamphlet racks of the type normally used with perforated hardboard panels. Other items or materials may be mounted on the fence with paste or staples.

MODEL "I"—same as above, except right hand motorized to give pointing action. The simple trouble-free motor will normally operate several weeks on the standard dry cell included. Complete instructions are furnished.

The models are pre-packaged in kits to reduce packaging costs and facilitate handling. Kit packages cannot be broken. The kit numbers and their contents are:

| Item No. | Kit | PRICES |
|----------|---|--------|
| | | 1-9 |
| 035.11 | 1—Five each of models A and B, per kit | \$5.25 |
| 035.12 | 2—Five each of models C and D, per kit | 5.25 |
| 035.13 | 3—Five each of model E, per kit | 5.25 |
| 035.14 | 4—Five each of model F, per kit | 5.25 |
| 035.15 | 5—Three each of model G, per kit | 5.25 |
| 035.16 | 6—Two each of model H, (without motion) per kit | 5.25 |
| 035.17 | 7—One each of model I (with motion) per kit | 6.50 |
| 035.18 | 8—One each of models A to H, per kit | 7.75 |
| 035.19 | 9—Ten each of model D-1, per kit | 5.25 |



| PRICES | 10-99 | 100 or more |
|--------|--------|-------------|
| | 10-99 | 100 or more |
| | \$4.25 | \$3.95 |
| | 4.25 | 3.95 |
| | 4.25 | 3.95 |
| | 4.25 | 3.95 |
| | 4.25 | 3.95 |
| | 4.25 | 3.95 |
| | 5.50 | 5.15 |
| | 6.50 | 6.00 |
| | 4.25 | 3.95 |

Traffic Safety

TIME FOR DECISION
Here's why we are falling
short in highway safety

THE TEENAGE REBEL and His Weapon— The Automobile

Traffic Safety

Beginning in this issue—
OPERATION SAFETY
Your Complete Program Aid

ARE SEAT BELTS GOOD OR BAD?

TRAFFIC
OPERATIONS
How to Handle Tourist Traffic

PUBLIC SUPPORT
Nation Rallies to Back the Attack

MOTOR
TRANSPORTATION

Traffic Safety

BACK
the ATTACK
on traffic fatalities
How to step it up in 1958—
Special Program Aid Section

LIFE AND DEATH on the

14-INCH TIRES PASS SKID TEST

Dropstone laboratory reveals facts on new tires, chains, weight distribution—and lets the air out of an old wiper's tale



DEATH AND DARKNESS

Though fewer cars are on the road during the hours of darkness—more fatal accidents occur than during daylight hours.



TIPS ON HOW TO OUTWIT DANGER

- FOR DRIVERS**
 - 1. When you are driving at night, always use your headlights.
 - 2. When driving at night, always use your headlights.
 - 3. When you are driving at night, always use your headlights.
- FOR WALKERS**
 - 1. When you are walking at night, always use your flashlight.
 - 2. When you are walking at night, always use your flashlight.
 - 3. When you are walking at night, always use your flashlight.
- FOR CYCLISTS**
 - 1. When you are cycling at night, always use your flashlight.
 - 2. When you are cycling at night, always use your flashlight.
 - 3. When you are cycling at night, always use your flashlight.

Traffic Safety magazine

Here is a new, modern, multi-purpose tool for firms with fleets, for off-the-job safety programs, for any organizations interested or active in traffic safety. Here is the best, single source of vital traffic accident prevention information in existence! And, Traffic Safety is far more than just a magazine—it's actually a package of useful implements.

OPERATION SAFETY the Council's public education program is now a regular feature of Traffic Safety, providing program planning guidance, helpful facts and statistics, lists of program aids.

RESEARCH REVIEW a 32 page quarterly supplement that brings together the results of research being done by many agencies and universities in important aspects of traffic safety.

NEWSLETTERS—"Today's Traffic" and "Test Talk" 2 newsletters previously available only by subscription have been incorporated as regular features of Traffic Safety. Two additional newsletters, for police and traffic court officials, are featured bi-monthly.

INFORMATIVE EDITORIAL CONTENT—articles and editorials in Traffic Safety provide plenty of down-to-earth, valuable information for safety directors and other interested executives in the motor transportation fields, as well as to traffic control people and public support groups.

And with each successive issue, Traffic Safety is becoming more interesting, useful, and essential to anyone working for traffic safety, or for the success of a fleet safety program.

311.01. Traffic Safety subscriptions, (12 issues) 1 to 9, each: \$4.50; 10, \$3.50; 100, \$2.80. Add \$.50 per subscription for foreign other than Canada and Pan American Union.

Off the Job SAFETY MATERIALS

The safety of employees away from work is an integral part of the modern occupational safety program. Many organizations extend their activities into the community, working in cooperation with their local safety organizations, schools, and other civic groups. The Council offers thousands of educational and promotional safety materials that can be effectively used in both off-the-job and community service activities. Those described in this catalog are indexed below. For a more comprehensive list of materials, write for the Council's 16-page Catalog of Public Safety Materials.

PLANNING AND ADMINISTRATIVE MATERIALS

| | Page Number |
|---|-------------|
| Accident Facts—contains off-the-job accident data... | C-11 |
| Farm Safety Review..... | C-55 |
| Home Safety Review..... | C-55 |
| National Directory of Safety Films..... | C-12 |
| Off-the-Job Accidents, SPP 102..... | C-9 |
| "Off-the-Job"—department feature in National Safety News..... | C-4 |
| Off-the-Job Safety Kit..... | C-58 |
| Public Safety Catalog..... | C-55 |
| Safety Education..... | C-55 |
| Traffic Safety Magazine..... | C-54 |

VISUAL AIDS

| | |
|--|------|
| First Aid Treatment for Burns (safetygraph)..... | C-35 |
| How To Control Bleeding (safetygraph)..... | C-35 |
| Off-the-Job Safety (safetygraph)..... | C-35 |
| Posters—see Directory of Occupational Safety Posters | |
| Safe As You Make It (film)..... | C-40 |
| Transportation of Injured Persons (safetygraph)..... | C-35 |
| Two Methods of Artificial Respiration (safetygraph)... | C-35 |
| Vacation Safety (film)..... | C-40 |
| What's Your Safety I. Q.? (film)..... | C-39 |
| You Can Take It With You (film)..... | C-40 |

EMPLOYEE DISTRIBUTION MATERIALS

| | |
|---|------|
| Be Your Own Traffic Judge..... | C-30 |
| Dennis the Menace..... | C-28 |
| Highway Zoo..... | C-30 |
| Home Tumbles Are No Circus..... | C-28 |
| How To Go On Ice and Snow..... | C-30 |
| Is Your Home Fall Proof?..... | C-28 |
| Know and Obey..... | C-30 |
| Let's Go On A Safe Vacation..... | C-28 |
| National Safety Calendar..... | C-59 |
| Nice Going Pop!..... | C-26 |
| Playing Cards..... | C-50 |
| Reaction Timer..... | C-45 |
| Safe At Home..... | C-28 |
| Safety Cubes Game..... | C-49 |
| Safety Instruction Cards—see S. G. 5.2 for off-the-job cards..... | C-9 |
| Signs of Trails and Rails..... | C-30 |
| Smart Headwork for Lifesaving Footwork..... | C-30 |
| Take It Home With You..... | C-26 |

SPECIAL SUBJECT PROGRAMS

| | |
|--------------------------------|------|
| Baby Sitter's Packet..... | C-58 |
| Back The Attack materials..... | C-56 |
| Child Safety Program..... | C-58 |
| Farm Safety Aids Kit..... | C-58 |
| Home Safety Program Kit..... | C-58 |
| Youth Traffic Safety Kit..... | C-58 |

HOME SAFETY REVIEW

A monthly magazine (published September through June) devoted exclusively to home safety. Contains articles on educational and promotional activities, factual data on home accidents and how to prevent them. 32 pages, 8½" x 11".

\$11.01 Annual subscription (10 issues), each: 1 to 9, \$2.25; 10 to 99, \$2.10; 100 or more, \$1.95. Add \$.25 for foreign subscription other than Canada and Pan American Union.



SAFETY EDUCATION MAGAZINE

Written for school people by school people, this 9-issue magazine (published September through May) contains practical guidance on safety education for all grades, a colorful poster insert, four safety lessons, and a Safety Education Data Sheet. 40 pages, 7" x 10".

\$41.01 Annual subscription (9 issues), each: 1 to 9, \$3.50; 10 to 99, \$3.25; 100 to 999, \$3.10; 1000 or more, \$3.00.



FARM SAFETY REVIEW

A national farm safety magazine published bi-monthly for agricultural leaders. Contains ideas, articles, and program guidance for teachers, club leaders and others concerned with the promotion of safety in agricultural occupations. 16 pages, 5½" x 8½".

\$11.01 Annual subscription (6 issues), each: 1 to 9, \$1.15; 10 to 99, \$.90; 100 to 999, \$.69; 1000 to 4999, \$.58; 5000 or more, \$.55. Add \$.25 for foreign subscription other than Canada or Pan American Union.



INDUSTRY BACKS the ATTACK!



BACK THE ATTACK LEAFLETS

Launch your organization's Back the Attack Program by distributing the three basic 4-page publicity leaflets to all employees. For full impact, schedule them in the order listed below, for every other day during the first week. All leaflets are 3½" x 6", illustrated in two colors, with space for imprinting on the back page. Multiples of 1000 only.

397.13. Let's All Back the Attack on Traffic Accidents. Drives home the point that the war on traffic accidents can only be won if every driver and pedestrian joins in.

397.11. Join Up. Explains the moral responsibility of each person to drive safely.

397.12. Close Ranks. Stresses the importance of supporting official action for traffic safety.

Per 1000: 1,000 to 9,000, \$6.70; 10,000, \$5.70; 100,000, \$5.00; 1,000,000, \$4.50.

POSTERS

Use the campaign theme poster "Let's All Back The Attack On Traffic Accidents" on all bulletin boards and other poster positions during the first week. Additional traffic safety posters are available for follow-up use.

381.11. T-1195-A (8½" x 11½") each: 1 to 9, \$.15; 10, \$.092; 100, \$.063; 1000, \$.052; 5000, \$.046; 10,000, \$.09; 20,000, \$.037.

381.23. T-1184-B (17" x 23") each: 1 to 9, \$.25; 10, \$.18; 100, \$.15; 1000, \$.12; 5000, \$.10; 10,000, \$.09; 20,000, \$.08.

381.33. T-1194-C (25" x 38") each: 1 to 9, \$.35; 10, \$.27; 100, \$.22; 1000, \$.20; 5000, \$.19; 10,000, \$.185; 20,000, \$.18.

OPERATION SAFETY LEAFLETS

Maintain your employees awareness and interest in traffic safety by setting up a definite "pass-out" schedule of the leaflets listed below. Each leaflet ties in with a monthly theme of the Council's Operation Safety Program. 4 pages, 2 colors, 3½" x 6", with space for imprint.

| Packets of 100 | Packets of 1000 | Title |
|----------------|-----------------|----------------------------------|
| 391.05-1 | 391.05-2 | Speed Kills |
| 391.26-1 | 391.26-2 | Teen Aged Follow Your Example |
| 391.33-1 | 391.33-2 | School Slow |
| 391.38-1 | 391.38-2 | Children May Dare—Drivers Beware |
| 391.41-1 | 391.41-2 | Alert Today—Alive Tomorrow |
| 391.42-1 | 391.42-2 | Slow School |
| 391.43-1 | 391.43-2 | Slow Down at Sundown |
| 391.45-1 | 391.45-2 | Do A Good Turn—Wait |
| 391.48-1 | 391.48-2 | Keep Your Eye On the Other Guy |



| Packets of 100 | Packets of 1000 | Title |
|----------------|-----------------|---|
| 391.50-1 | 391.50-2 | Portrait of A Missing Link And Then There Was One |
| 391.51-1 | 391.51-2 | Case of the Persistent Pedestrian |
| 391.56-1 | 391.56-2 | Light Right at Dusk and Night |
| 391.59-1 | 391.59-2 | Fight Holiday Traffic Hazards |
| 391.66-1 | 391.66-2 | Now's The Time to Live |
| 391.69-1 | 391.69-2 | Now's The Time to Say No |

Packets of 100, each: 100 to 900, \$2.50.

Packets of 1000, each: 1000 to 4000, \$20.00; 5000, \$18.00; 10,000, \$16.00; 20,000, \$14.00; 100,000, \$12.00; 200,000, \$10.00.

OTHER PROGRAM PUBLICITY AIDS

BUMPER STRIPS. Display on all company vehicles and employee cars. 4" x 12 1/4", printed in fluorescent ink on heavy paper with pressure sensitive adhesive backing. Bumper strips read "Let's All Back The Attack on Traffic Accidents." Multiples of 100 or 1000 only.

397.16-1: \$9.00 per hundred.

397.16-2: \$72.00 per thousand.

DASHBOARD STICKERS. This 1 1/4" x 4" miniature of the bumper strip design is an effective reminder to drivers of their responsibility to support traffic safety. Sticker reads "Let's All Back The Attack on Traffic Accidents." Available in multiples of 100 or 1000 only.

397.17-1: \$2.50 per hundred.

397.17-2: \$16.00 per thousand.

GUMMED STICKERS. Affix these stickers on correspondence, employee notices, and advertising literature to show your organization's support of the nation-wide "Back The Attack on Traffic Accidents Campaign." 1 1/4" x 4" size with slogan "Let's All Back The Attack on Traffic Accidents." Available in books of 400 stickers only.

397.18. Books of 400 stickers, each: 1 to 9, \$2.50; 10, \$1.75.

BUTTONS. Let your drivers, employees and their children broadcast their concern about traffic safety by wearing these attractive 1 1/2" lithographed metal buttons. Multiples of 100 or 1000 only.

397.07-1. Per 100: 100 to 400, \$8.00; 500, \$9.70.

397.07-2. Per 1000: 1000 to 4000, \$65.00; 5000, \$55.00; 10,000, \$45.00.

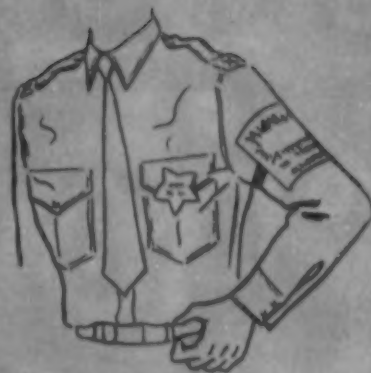
HANG-ON-TAGS. Designed to fit all beverage bottles, as well as car door handles, and door knobs. Tags are 3" x 5 1/4", with a 2 1/4" cut-out. Available in multiples of 1000 only.

397.06. Per 1000: 1000 to 9000, \$5.50; 10,000, \$4.95; 100,000, \$4.45.

ARM BANDS. Features the Back The Attack slogan on a heavy stock, 4" square, with elastic band. Ideal for safety committee members, supervisors, and company drivers. Available in multiples of 10 and 100 only.

397.05-1: \$1.20 per 10.

397.05-2: \$8.00 per 100.





6 BIG KITS

for planning
specialized
programs

FARM SAFETY AIDS KIT. A kit containing 50 Farm Safe Practices Leaflets, a booklet of Farm Safety Demonstrations, Farm Safety Plays, and a variety of publications on farm accident prevention work.
\$29.31. Each: 1 to 9, \$1.67; 10, \$1.40; 100, \$1.10.

HOME SAFETY PROGRAM KIT. A complete kit of materials for planning, organizing, and conducting a campaign against home accidents by a community group or agency. Instructions for making surveys and promotion campaigns; contains sample talks, radio and newspaper publicity, and meeting programs.
\$29.21. Each: 1 to 9, \$1.25; 10, \$1.15; 100, \$1.05; 1000, \$.95.

YOUTH TRAFFIC SAFETY KIT. A special program-planning kit for leaders of teen-age youth groups, to help the young driver realize his responsibilities for traffic safety. The kit contains program suggestions for an entire school year. Designed for use by student councils, 4-H clubs, safe driver clubs, and similar groups.
\$12.05. Each: 1 to 9, \$1.50; 10, \$1.25; 100, \$1.10; 1000, \$1.00.

OFF-THE-JOB SAFETY KIT. A packet prepared by the Off-The-Job Safety Committee to help safety men put across a program to both management and employees. Contains booklets, instruction cards, planning materials, sources of help, posters, and other materials.
\$29.30. Each: 1 to 9, \$1.15; 10, \$1.00.

BABY SITTER SAFETY PACKET. A kit of materials for organizing a home safety program for baby sitters and parents. Detailed instructions for forming and conducting a safety training class for sitters. Contains program guides, promotion and publicity aids.
\$29.44. Each: 1 to 9, \$1.25; 10, \$1.15; 100, \$1.05; 1000, \$.95.

CHILD SAFETY PROGRAM PACKAGE. Plans, ideas and materials for a community safety program. Covers accidents to children at home, in school and on the streets. Discusses how to organize a community-wide committee, publicity, home projects, exhibits, demonstrations, and meetings.
\$29.42. Each: 1 to 9, \$1.25; 10, \$1.15; 100, \$1.05; 1000, \$.95.

Help your workers achieve



national safety calendar

the nation's Number 1
safety training aid

The National Safety Calendar is given to more employees, by more companies, than any other of the 4000 items produced by the National Safety Council. And there's a good reason for this popularity—the 'round-the-clock safety fostered by these bright training aids plays a big part in creating a successful safety program.

- * Nearly 3 out of 5 accidents occur during the off-the-job part of the work day—and your company foots the bill in lost manhours. *'Round-the-clock safety helps cut down off-the-job accidents!*
- * Workers trained in 'round-the-clock safety are more safety minded all of the time—have fewer accidents on the job!
- * 'Round-the-clock safety education pays a big, extra dividend in employee loyalty and good will toward your company!

Federal Gov't. Agencies Note: The only calendar authorized for display at U. S. Government installations is the one produced by the G.P.O. Therefore, the National Safety Calendar cannot be purchased by any U. S. Government agency or installation.

Obey Signs

| 1958 January | | | | | | |
|--------------|-----|-----|-----|-----|-----|-----|
| SUN | MON | TUE | WED | THU | FRI | SAT |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

It's not the RIGHT way if it isn't SAFE
NATIONAL SAFETY COUNCIL

The National Safety Calendar is the one training aid you can put in your employees homes that will work for you day after day for a solid year. 12 full color, whimsical safety picture-reminders, and 12 pages of sound safety tips. Families that look to the National Safety Calendar know more about safety . . . think more about safety—at work, at play, in traffic, in the home.

MONTHLY CASH PRIZE CONTESTS

Only employees, and their families, of organizations which are members of the National Safety Council, are eligible to try their hands at the big monthly "save-a-life line" contest which is a feature of the National Safety Calendar. It's easy for them to enter—they just write a rhyming last line for the limerick on the back of each calendar page, and send them in. And since the limericks are about safety—the employee and his family give that much more time and attention to thoughts of accident prevention. Plan now, to let the National Safety Calendar double the scope of your safety program. Write for full details.

INDEX

| | | | | | |
|---|----------|---|--------|--|--------|
| Accident Analysis Chart..... | C-11 | Employee Training Films—see Index beginning on page C-36 | | Memo Pads, Driver..... | C-45 |
| Accident Facts..... | C-11 | Expert Driver Award Certificate..... | C-45 | Message to Construction Supervisors..... | C-14 |
| Accident Preventers..... | C-27 | Fall Guy, The..... | C-28 | Money Clip, Safe Driver Award..... | C-46 |
| Accident Prevention Manual for Industrial Operations..... | C-5 | Falls Aren't Funny..... | C-28 | More Gravy, Sir!..... | C-29 |
| Accident Rates Pamphlets..... | | Falls Banners..... | C-32 | National Directory of Safety Films..... | C-12 |
| —Industrial..... | C-11 | Falls Hurt—Be Alert..... | | National Fleet Safety Contest..... | C-45 |
| —Motor Transportation..... | C-11 | —Footprints..... | C-31 | National Safety Calendar..... | C-59 |
| Accident Record Forms..... | | —Pennants..... | C-31 | National Safety Council Services..... | C-2, 3 |
| —Industrial..... | C-11 | Falls off Roof, National Campaign to Prevent Injuries from..... | C-11 | National Safety News..... | C-4 |
| —Motor Transportation..... | C-11 | Farm Safety Aids Kit..... | C-58 | Newsletter..... | C-10 |
| Administrative Units..... | C-15 | Farm Safety Review..... | C-55 | Nice Going, Pop!..... | C-26 |
| Ambassador Pencil..... | C-47 | Films—see Index beginning on page C-36 | | Off-the-Job materials—items are listed alphabetically, also see Index on page C-55 | |
| Arm Band—Back the Attack..... | C-56 | First Aid Reminders..... | C-27 | Off-the-Job Safety Kit..... | C-58 |
| Award, Safe Driver..... | C-44 | Fit as a Fiddle..... | C-28 | Operation Safety Leaflets..... | C-56 |
| Award of Honor Pennant..... | C-51 | Five Minutes Safety Talks, series..... | C-19 | Passenger Safety..... | C-30 |
| Award of Merit Pennant..... | C-51 | Flag, Green Cross..... | C-51 | Payroll Enclosures..... | C-42 |
| Award Key Tags..... | C-48 | Flames I Have Known..... | C-26 | Pencils..... | C-47 |
| Back the Attack on Traffic Accidents Campaign Materials..... | C-56, 57 | Fleet, Accident Record Forms..... | C-11 | Pens, Ballpoint..... | C-47 |
| Baby Sitter Packet..... | C-58 | Fleet Safety Manual..... | C-13 | Pennants..... | |
| Ballpoint Pens..... | C-47 | Fleet Safety Memos..... | C-45 | —Award of Honor..... | C-51 |
| Banners, Safety..... | | Footprints ("Falls Hurt—Be Alert")..... | C-31 | —Award of Merit..... | C-51 |
| —Falls..... | C-32 | Foremen's Five Minute Safety Talks..... | C-19 | —Falls Hurt—Be Alert..... | C-31 |
| —General..... | C-43 | Foremen's Training Films—see Index beginning on page C-36 | | Personal Development Pamphlets (series)..... | C-18 |
| —Safe Driver Award..... | C-45 | For Experts Only..... | C-44 | Personal Effectiveness (Personal Development Series)..... | C-18 |
| Be Your Own Traffic Judge..... | C-30 | Forms, Accident Record..... | C-11 | Personal Side of Safety film series..... | C-38 |
| Bedside Manner..... | C-29 | Get a Load of This..... | C-28 | Plastic Key Tags..... | C-48 |
| Belt Buckle, Safe Driver Award..... | C-46 | Go Fly a Kite..... | C-29 | Plastic Pocket Protectors..... | C-48 |
| Binders..... | | Graphic Arts Industry, Safety Manual for..... | C-13 | Playing Cards, Safety..... | C-50 |
| —Data Sheet..... | C-6 | Graphic Arts Industry Safety Study Course..... | C-11 | Plus Costs of Accidents..... | C-14 |
| —Detail Sheet..... | C-8 | Green Cross Display Easel..... | C-51 | Pocket Book of Speech Formulas..... | C-18 |
| Bumper Strips—Back the Attack..... | C-56 | Green Cross Electros..... | C-51 | Pocket Protectors..... | C-48 |
| Button—Back the Attack..... | C-56 | Green Cross Flag..... | C-51 | Posters..... | |
| Calendar, National Safety..... | C-59 | Green Cross Lapel Pin..... | C-46 | —Back the Attack..... | C-56 |
| Cards, Playing..... | C-50 | Gummed Sticker—Back the Attack..... | C-56 | —Industrial..... | C-42 |
| Cards, Safety Instruction..... | C-9 | Handbook of Accident Prevention..... | C-14 | —Jumbo..... | C-43 |
| Chainsaw Safety..... | C-29 | Hang On Tag—Back the Attack..... | C-56 | —Motor Transportation (sets)..... | C-44 |
| Child Safety Program Packet..... | C-58 | Heads You Win..... | C-26 | Posters, Directory of Occupational..... | C-42 |
| Cigarette Lighter..... | C-46 | Health Practices Pamphlets, series..... | C-9 | Posters, Electros..... | C-42 |
| Close Ranks—Back the Attack Leaflet..... | C-56 | Highway Zoo..... | C-30 | Posters, Frames..... | C-42 |
| Committee Badge, Safety..... | C-46 | Home Accident Report..... | C-11 | Professional Safe Driving film series..... | C-40 |
| Communications & Safety (Personal Development Series)..... | C-18 | Home Safety Program Kit..... | C-58 | Prudence Avec La Scie a Chaine..... | C-29 |
| Complete Motor Transportation Service..... | C-44, 45 | Home Safety Review..... | C-55 | Psychology & the Supervisor..... | C-18 |
| Congress Transactions (Current Safety Topics)..... | C-10 | Home Tumbles Are No Circus..... | C-28 | Psychology of Safety in Supervision..... | C-18 |
| Construction Leaflets..... | C-14 | Honor Guard Pencil..... | C-47 | Reaction Timer..... | C-45 |
| Crane Contacts Kill..... | C-29 | Hospital Safety Manual..... | C-13 | Safe at Home..... | C-28 |
| Cuff Links, Safe Driver Award..... | C-46 | Hospital Safety Service..... | C-11 | Safe Builder..... | C-25 |
| Current Safety Topics (Transactions of National Safety Congress)..... | C-10 | How to Be a Smooth Operator..... | C-30 | Safe Driver..... | C-25 |
| Danger, Keep Clear of Electric Lines..... | C-29 | How to Go on Ice & Snow..... | C-30 | Safe Driver Award..... | C-44 |
| Dash Cards..... | C-31 | How to Make the Safety Speech..... | C-18 | —Banner..... | C-45 |
| Dash Stickers..... | C-31 | How to Start a Safety Program..... | C-12 | —Belt Buckle..... | C-46 |
| Dashboard Stickers—Back the Attack..... | C-56 | Human Factors in Safety film series..... | C-21 | —Cuff Links..... | C-46 |
| Data Sheets..... | C-6, 7 | Illustrated Safety Devices—Cement & Quarry..... | C-14 | —Lighter..... | C-46 |
| Decals..... | C-33 | In the Clear..... | C-29 | —Money Clip..... | C-46 |
| Defensive Driving, Bus Edition..... | C-30 | Incentives—items are listed alphabetically | | —Tie Bar..... | C-46 |
| Dennis the Menace on Safety..... | C-28 | Industrial Data Sheets..... | C-6, 7 | —Shoulder Patch..... | C-45 |
| Detail Sheets..... | C-8 | Industrial Safety Series Pamphlets..... | C-9 | —Watches..... | C-47 |
| Development of Fire Emergency Program Manual..... | C-14 | Industrial Supervisor magazine..... | C-16 | Safe Practices Pamphlets..... | C-9 |
| Directory of Occupational Safety Posters..... | C-42 | Instructor's Guide for Supervisor's Safety Manual..... | C-17 | Safe Railroaders..... | C-25 |
| Directory, National, of Safety Films..... | C-12 | Is Your Home Fall Proof?..... | C-28 | Safe Worker..... | C-25 |
| Display Easel, Green Cross..... | C-51 | Jig & Fixture Design for Woodworking Safety..... | C-12 | Safety & Its Relationship to Personality (Personal Development Series)..... | C-18 |
| Do We Still Need Safety?..... | C-26 | Join Up—Back the Attack Leaflet..... | C-56 | Safety & the Foreman film series..... | C-20 |
| Do's & Don'ts of Ladder Safety..... | C-28 | Jumbo Posters..... | C-43 | Safety Banners..... | |
| Down Time..... | C-28 | Key Tags, Award..... | C-48 | —Falls..... | C-32 |
| Driver Letter..... | C-44 | Know & Obey Your Signs of Life..... | C-30 | —General..... | C-43 |
| Driver Memo Pads..... | C-45 | Lapel Pin, Green Cross..... | C-46 | Safety Committee Badge..... | C-46 |
| Driver Training Films—see Index beginning on page C-36 | | Let's All Back the Attack on Traffic Accidents..... | C-56 | Safety Cube Game..... | C-49 |
| Easels..... | | Let's Go on a Safe Vacation..... | C-28 | Safety Devices & Ideas..... | C-12 |
| —Display..... | C-51 | Let's Get Personal (Personal Development Series)..... | C-18 | Safety Education magazine..... | C-55 |
| —Safetygraph..... | C-34 | Lighter, Cigarette..... | C-46 | Safety in Quarry Operations..... | C-13 |
| Electros..... | | Live a More Abundant Life (Personal Development Series)..... | C-18 | Safety Inspection Checklist..... | C-11 |
| —Green Cross..... | C-51 | Marine Oil Fired Watertube Boilers, Safety Manual for..... | C-13 | Safety Instruction Cards..... | C-9 |
| —Poster..... | C-42 | Manual for Accident Prevention in Construction..... | C-13 | Safety Is No Accident..... | C-26 |
| —Sammy Safety..... | C-51 | Man with the Badge, The..... | C-26 | Safety Management for Foremen film series..... | C-24 |
| Emergency Removal of Patients & First Aid Fire Fighting in Hospitals..... | C-14 | | | Safety Manual for the Graphic Arts Industry..... | C-13 |

| | | | | | |
|--------------------------------------|----------|--|------|--|------|
| Safetygraphs | C-34, 35 | Sticker, "Danger Electric Lines" | C-29 | Traffic Safety magazine | C-54 |
| -Easels | C-34 | Sticker, Dashboard-Back the Attack | C-56 | Training Films-see Index beginning on | |
| Safetyman's Library | C-10 | Sticker, Gunned-Back the Attack | C-56 | page C-36 | |
| Sammy Safety Figurines | C-52, 53 | Supervising for Safety film series | C-22 | Waggin' Tale, A | C-29 |
| -Electros | C-51 | Supervisor's Safety Manual | C-17 | Watch Out for Wires | C-29 |
| Section Newsletters | C-10 | -Instructor's Guide | C-17 | Watches, Safe Driver Award | C-47 |
| Seven Steps to Safety | C-14 | Supervisor Training Films-see Index | | What's in It for Me? | C-26 |
| Showmanship in Safety | C-12 | beginning on page C-36 | | Woman on the Job, The | C-12 |
| Signs of Trails & Rails | C-30 | | | Worker Training Course film series | C-39 |
| Smart Headwork for Lifesaving Foot- | | | | Working Together for Safety | C-26 |
| work | C-30 | Tailboard Meetings, Thirty Short Safety | | | |
| Snake Bite Manual | C-14 | Talks for | C-19 | You Factor in Accident Causes, The | |
| Speaking of Safety film series | C-23 | Take It Home With You | C-26 | -Truck Edition | C-30 |
| Speaking Straight-Thinking Straight | C-18 | Thirty Short Safety Talks for | | -Bus Edition | C-30 |
| Special Industry Pamphlets | C-9 | Tailboard Meetings | C-19 | Your Ten Best Tools | C-29 |
| Stars, For Award Pennants | C-51 | This'll Burn You Up | C-26 | Youth Traffic Safety Kit | C-58 |
| Steps to Safety | C-26 | Tie Bar, Safe Driver Award | C-46 | | |

CONDITIONS AND TERMS

All prices in this catalog are subject to a 10% discount to National Safety Council members, and to schools, colleges, universities, and public libraries. To all others, prices apply as shown.

Prices shown in this catalog are effective January 1, 1958 (Federal Agencies see below), payable in U. S. Funds, and assume availability of stock at the time the order is received. The National Safety Council reserves the right to discontinue any item or change the price without notice.

QUANTITY PRICES: All prices shown are based on a single order for delivery in one shipment to one destination (one shipment per month on annual subscriptions). Quantities are not cumulative over a period of time, or for a number of locations, to obtain quantity prices.

SHIPMENT: Prices, unless otherwise noted, are F.O.B. destination—shipped cheapest way to the nearest post office, freight or express office within the United States (including A.P.O. and F.P.O.), Canada and Pan American Union. On shipments to foreign countries (Canada and Pan American Union, excepted) an additional charge equal to 4% of the order will be added (except on subscription items where a postage surcharge is indicated). The Council does not pay customs duties, supply ocean bills of lading, cubic foot and weight data, or provide export packing for overseas shipments. When air mail, special delivery or C. O. D. shipments are requested, shipments are F. O. B., Chicago, Illinois.

PAYMENT: Terms of payment on all invoices are 30 days net, except quantity calendar purchases. Annual subscriptions are payable in advance after receipt of the first month's issue. Remittance should accompany all orders totaling one dollar or less.

FEDERAL AGENCIES

Prices shown in this catalog are effective for the period December 1, 1957, through November 30, 1958, and have been approved under a Federal Supply Service Contract. The Contract number can be obtained by writing: Service Contract Bureau, National Safety Council, 425 N. Michigan Avenue, Chicago 11. Federal Agencies must submit formal purchase orders with proper signature in ink.

IMPRINTING CHARGES

Imprinting can be done on all Council publications. In general, imprinting is limited to three lines. On large posters, imprinting is limited to the right hand

half of the lower margin. It is understood that a quantity within 4% above or below the quantity requested will constitute an acceptable delivery on any order requiring imprinting.

Imprinting at time of publication:

Safe Driver, Safe Worker, and all other publications imprinted at time of publication (except calendars), regardless of quantity—per lot or per month on monthly publications \$2.25

On monthly publications, the per lot-per month charge of \$2.25 is effective only when the imprint remains the same during the period of subscription.

Imprinting after publication:

Large posters (17" x 23")—1st 1,000 \$11.00
or fraction
| Additional 1,000 or fraction | 8.35 |

Other publications imprinted after publication, where space permits:

1st 1,000 or fraction \$7.80
additional 1,000 or fraction 3.35

REPRODUCTION OF THE GREEN CROSS

The Green Cross for Safety emblem is the registered trade-mark of the National Safety Council. Unless special authorization is given, the emblem may not be included on publications and materials produced by other organizations, except that members of the National Safety Council may use it under the following conditions:

1. The user must be a member of the National Safety Council in good standing.
2. Beneath the emblem there must appear the words "Member National Safety Council."
3. The emblem may be used only on official letter-heads of members, or on other materials which members use in safety work, to signify as a member of the Council, an interest in accident prevention and safety programs.
4. Such use of the emblem must not convey the impression that the Council has endorsed or approved any commercial product or service.

USE OF MATERIALS

Publications and materials described in this catalog are available both to members and non-members of the National Safety Council. Non-member purchasers may not redistribute or display Council publications or materials in such a manner as to convey the impression that they are members, and neither members or non-members may redistribute or display Council publications or materials in such a manner as to convey the impression that the Council has approved any commercial product or service.



NATIONAL SAFETY COUNCIL
425 NORTH MICHIGAN AVENUE
CHICAGO 11, ILLINOIS

SAFETY POSTERS

SAFETY POSTERS

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SAFETY POSTERS

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SAFETY POSTERS

National Safety News
1958 Directory Section

**SAFETY
POSTERS**

OCCUPATIONAL

BIG

..... colorful eye catchers that shout **SAFETY** to each passer-by



JUMBO POSTERS

So big they can't be missed — so colorful they demand attention! Anyone passing your Jumbo Poster board just can't help absorbing its message of safety. 11 feet 8 inches wide by 9 feet 11 inches high, Jumbo Posters come in 8 sheets — easy to put up. Ink and paper are weather resistant for a minimum of 30 days.

A subscription brings you 12 posters — a timely, forceful message for each month of the year. Plans for erecting an attractive Jumbo Poster display board will be sent on request. See page 2 for prices.

SAFETY BANNERS

A practical way to put safety on display inside and outside your plant. These big 3½ by 10 foot banners, printed in vivid, full color, can be erected and re-located with ease. Of heavy cloth, they can be used over and over — spotted throughout your work area and at

all approaches to and from your plant. Indoor style has eight metal grommets for easy hanging. Outdoor style, on extra-heavy cloth, has air vent flaps and ropes firmly stitched into top and bottom. Both styles, with same design, are available on subscription. See Page 2 for prices.



NATIONAL SAFETY NEWS 1958 DIRECTORY SECTION OF OCCUPATIONAL SAFETY POSTERS

(This directory section supersedes all previous issues. Please order ONLY from this and future issues of the NATIONAL SAFETY NEWS or TRAFFIC SAFETY.)

THE wide selection of "A" and "B" posters presented in this section will be available for purchase during 1958. New posters issued during 1958 will be displayed monthly in the NATIONAL SAFETY NEWS or TRAFFIC SAFETY.

These posters are the culmination of the National Safety Council's 44 years' experience in publishing posters directed toward shaping workers attitudes. Choices of subjects were made on the basis of the importance of hazards as indicated by the general accident experience of American industry. Sound psychological principles governed the selection of these varied types of appeals to workers.

This directory section with its 756 miniatures posters is designed for use in various industries and the occupations related thereto. The Council's posters specifically in the fields of school, farm, home and traffic (other than related to the motor transportation industry) are not included, except some to implement off-the-job programs.

Posters are grouped into broad subject classifications—see Table of Contents on page D-2. *A detailed subject index is presented on pages D-70-71.* There are references under various subject headings which indicate the location of additional posters related to those particular subjects.

The new safety banners and Jumbo posters are described on opposite page. Special industry poster sets are described opposite page D-72 along with *other poster program aids.*

The posters illustrated in one color are actually printed in two or more colors. Regular four-color posters, reproduced in multi-colors, are grouped in the center of this section but, because of mechanical limitations, this group includes posters of various subjects. References below regular subject headings will enable you to locate specific four-color posters easily. Dimensions shown below illustrations indicate the only sizes in which the poster is available.



NATIONAL SAFETY COUNCIL

425 N. Michigan Ave., Chicago 11, Illinois

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Printed in U.S.A.

Stock No. 189-01-B

TABLE OF CONTENTS

| | Page D- |
|--|---------------|
| Introduction | 1 |
| Table of contents | 2 |
| How to obtain posters | 3 |
| How to use posters | 4 |
| Posters section— | |
| General Appeal (see also Miscellaneous) | 5-10 |
| Miscellaneous—including score sheets, signs, rules, new employees, horseplay, off-the-job, etc. | 11-13 |
| Falls (see also Housekeeping) | 14-18 |
| Housekeeping (see also Falls) | 19-20 |
| Electricity | 21 |
| Materials Handling—manual | 22-29 |
| Materials Handling—mechanical | 30-31 |
| Seasonal & Holiday | 31-32 |
| Four color posters—all subjects | 33-40 |
| Fire & Explosion | 41-43 |
| First Aid & Health | 44-45 |
| Chemicals & Gases | 45-46 |
| Clothing & Personal Protective Equipment | 47-51 |
| Machinery | 52-57 |
| Tools—hand & powered | 58-60 |
| Motor Transportation—trucks, buses, taxicabs | 61-69 |
| Index | 70-71 |
| Poster numerical listing | 72 |
| Giant size messages | Opposite D-1 |
| Poster program aids | Opposite D-72 |

POSTER PRICES*

| | 1 to 9 | 10 to 99 | 100 to 999 | 1000 to 4999 | 5000 to 9999 | 10,000 to 19,999 | 20,000 and up |
|---|--------------|----------------|------------------|--------------------|--------------------|------------------------|---------------------|
| "A" (8½"x11½")—Any selection | \$.15 | \$.092 | \$.063 | \$.052 | \$.046 | \$.04 | \$.037 |
| Annual subscription—12 issues | 1.50 | 1.10 | .75 | .62 | | | |
| "B" (17"x23")—Any selection | .30 | .22 | .185 | .15 | .115 | .098 | .086 |
| Annual subscription—12 issues | 3.00 | 2.45 | 2.20 | 1.80 | | | |
| "C" (25"x38")—Any selection | .35 | .27 | .22 | .20 | .19 | .185 | .18 |
| Annual subscription—12 issues | 3.50 | 2.70 | 2.20 | 2.00 | | | |
| JUMBO POSTERS —Annual subscrip., each (12 posters), paid in advance | 62.00 | 59.00 | 56.00 | | | | |
| Annual subscrip. monthly billing | 5.65 | 5.00 | 4.70 | | | | |
| SAFETY BANNERS —Annual subscrip., each (12 Banners), paid in ad- vance | 1 | 2 to 9 | 10 to 49 | 50 or more | | | |
| INDOOR | \$85.00 | \$79.50 | \$76.00 | \$72.50 | | | |
| OUTDOOR | 96.50 | 91.00 | 87.50 | 84.00 | | | |
| Annual subscription billed monthly | | | | | | | |
| INDOOR | 7.60 | 6.90 | 6.40 | 6.05 | | | |
| OUTDOOR | 8.55 | 7.85 | 7.35 | 7.00 | | | |

Orders for indoor and outdoor banners may be combined to qualify for quantity prices. Orders for shipment to more than one location may be billed on one invoice at prices for total quantity, plus a \$3.50 annual drop shipment charge per location.

*Members receive 10% discount on these prices. The above prices are subject to change without notice. Quantity prices apply only on a single shipment to one location. Other terms are as stated in official price list, catalog of Occupational Safety Services.

HOW TO OBTAIN POSTERS

There are two methods:

- 1—You may receive an automatic monthly service of posters selected by Council engineers.
- 2—You may select your posters from this Directory and the new posters illustrated in the poster section of the NATIONAL SAFETY NEWS and TRAFFIC SAFETY magazines.

There are advantages to both methods. The automatic service assures you of receiving a carefully planned selection of posters touching the principal sources of accidents in your industry. The posters provided will be balanced from the standpoint of appeals illustrated—ranging from the humorous, cartoon-type to the posters pointing to personal consequences of unsafe acts. And you do not run the risk of an interrupted schedule. Posters will arrive every month at the same time.

Selecting your own posters is obviously a more accurate method. It enables you to gear your poster choices to actual accident experience. You would not have to discard posters because of non-conformance with company operations or because illustrations may not match closely enough your specific operations or procedures.

A Standard Industrial membership includes a specified quantity of posters corresponding to the size of the membership. These posters may be obtained through one or more of the automatic services listed below, or you may order posters of your own selection any time during the membership year. If you prefer to select your posters, the quantity provided with the Standard Industrial

service is shown on a Poster Credit record, and your orders deducted up to the amount of this credit, expressed in dollars and cents.

When an order exceeds your remaining credit, you will be charged for the posters in excess of credit balance. Additional Poster Credit may be purchased when the credit provided under your membership is depleted. Many member organizations prefer to purchase additional credit as it saves the expense of processing frequent purchase orders and invoices.

If you have an Industrial Optional membership, you may order posters at any time and have the cost charged to your Service Credit.

If your organization has diversified operations, you may order a combination of the automatic services. Companies with a number of locations can order one or more automatic services for direct shipment to each location.

When ordering an automatic service, simply designate (1) the type of industry from the list below, and (2) the quantity of "A" size (8½"x 11½"), "B" size (17"x23"), and Traffic "C" size (25"x38") desired each month. This information should be shown for each location.

To determine total cost of poster subscriptions, multiply the number of posters sent each month by the price for that quantity. Example: The subscription is for 90 "A" posters per month, and 8 "B" posters per month, both of which have been assigned an AI number. Multiply \$1.10 by 90 for the cost of "A" posters. Multiply \$3.00 by 8 for the cost of "B" poster subscription.

AUTOMATIC POSTER SERVICE

COAL MINING (4)
 LOGGING & LUMBERING (29)
 METAL MINING (15)
 QUARRY—incl. gravel, sand (1)
 CONSTRUCTION (5)
 CEMENT—incl. gypsum & asbestos—mining & milling (2)
 GLASS & CERAMICS (13)
 CHEMICAL (3)
 FERTILIZER (40)
 FOOD
 Bakery & Candy (7C)
 Canning & Grocers (7B)
 Brewers (7E)
 Distillers (7D)
 Dairy Products—incl. margarine (7A)
 Grain Products—incl. linseed oil (7F)
 Ice Mfg. & cold storage (7G)
 Meat Packing (14)
 Salt Mfg. (18E)
 Sugar (7H)
 Misc. or not otherwise classified (7J)
 FORGING—not power press (8)
 FOUNDRY (9)
 HEAVY STEEL FABRICATION—incl. shipbuilding (10)
 MACHINE SHOPS (12)
 METAL STAMPING—power press (16)
 STEEL MANUFACTURING (25)
 AIRCRAFT MANUFACTURING (33A)
 ELECTRICAL EQUIPMENT MANUFACTURING (11)
 PETROLEUM (20)
 PRINTING (18D)

PUBLIC UTILITIES
 All operations (21)
 Electric Power only (21A)
 Gas only—not pipe lines (21B)
 PULP & PAPER—incl. box mfg. (19)
 RUBBER MANUFACTURING (22)
 LAUNDRIES & DRY CLEANING (18B)
 HOSPITALS & PUBLIC INSTITUTIONS (18H)
 HOTELS & RESTAURANTS (18G)
 MERCANTILE—RETAIL STORES (18F)
 RESTAURANTS ONLY (18J)
 WAREHOUSES (18K)
 TANNERS & LEATHER MANUFACTURING (26)
 TEXTILE (28)
 WOOD PRODUCTS MANUFACTURING (30)
 AIR TRANSPORT (33B)
 MARINE
 Vessel operations (31)
 Stevedoring (31A)
 RAILROAD (24)
 CITY BUS—TRANSIT (6)
 INTER CITY BUS (27)
 TAXICAB (35)
 CITY TRUCK (36)
 TRUCK TERMINAL (38)
 INTERCITY TRUCK (41)
 SALES TRUCK (42)
 BUS TERMINAL (43)
 GENERAL—other industries (39)
 TRAFFIC (32)

TO USE POSTERS MOST EFFECTIVELY

The worth of the safety poster has been demonstrated so often that there can be no question about its value in any industry program. Invariably it proves an effective medium for attracting the employees' attention and getting across a safety message that will stick.

Here are four general rules to make your poster program more successful:

1. **Select posters for variety.** Select a balanced supply of posters in a variety of sizes and a proper proportion of thought-provoking vs. inspirational, serious vs. humor, long-message vs. short-message "flash" types.

2. **Place posters strategically.** Test the effectiveness of different locations. Use short, "flash" type posters where traffic is on the move. Long message posters are more effective in places where traffic moves slowly or can stop easily—such as washrooms, stockrooms, lunchrooms, smoking areas, and in work areas, or near hazardous operations.

3. **Display posters attractively.** Provide board or frames for displaying your posters. Most important of all, see that your posters are illuminated adequately. Never gang up a large display of posters. Three on a single bulletin board are usually the maximum. Keep them apart from other material on the board.

4. **Change posters frequently.** Posters not intended for permanent display should be changed once a week. Try to add to or change some part of the board each day, using news items, announcements, photographs, etc.

The National Safety Council's Accident Prevention Manual of Industrial Operations (3rd edition), Section 7, contains more detailed discussion and illustrations of effective poster use.

TO PLAN YOUR POSTER SELECTIONS

Chart your program. Posters should be selected on the basis of plant accident experience. If 15 per cent of the accidents occur in handling materials, approximately that proportion per month should be aimed at this objective. A further breakdown might be made by choosing a poster on lifting every two months, with other posters on carrying, using hand trucks, use of gloves, safety shoes, etc., at specified intervals. The same procedure can be followed for other principal sources of injury.

Seasonal, housekeeping, first aid, fire and other general subjects should be scheduled regularly. Several posters per year can cover observing signs, reporting conditions and accidents, horseplay, and off-the-job accidents. These are shown in this Directory under "Miscellaneous."

Selecting your posters. From the poster section of NATIONAL SAFETY NEWS each month select those new posters that best fit your accident pattern. These posters were just produced and are being shown for the first time. For additional posters required, make your selections from the wide variety in this Directory.

Poster planning aid. A printed Poster Distribution Chart—11"x17" in size—is available to all members without charge. It is designed to facilitate planning your entire year's poster requirements by months. Write Membership Dept., N.S.C.

GENERAL APPEAL

See also: D-33-37.



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0847-B

17x23



PRINTED IN U.S.A.
NATIONAL SAFETY COUNCIL

9842-B

17x23



PRINTED IN U.S.A.
NATIONAL SAFETY COUNCIL

1108-A

8 1/2 x 11 1/2



PRINTED IN U.S.A.
NATIONAL SAFETY COUNCIL

0976-B

17x23

WATCH FOR NEW POSTERS MONTHLY IN NATIONAL SAFETY NEWS



PRINTED IN U.S.A.
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0907-A

8 1/2 x 11 1/2



PRINTED IN U.S.A.
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0793-A

8 1/2 x 11 1/2



PRINTED IN U.S.A.
NATIONAL SAFETY COUNCIL

0096-B

17x23

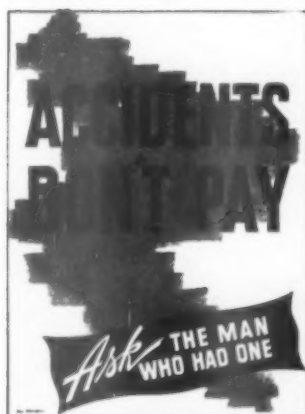


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0043-B

17x23

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8475-A

8 1/2 x 11 1/2



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0938-A

8 1/2 x 11 1/2



PRINTED IN U.S.A.
NATIONAL SAFETY COUNCIL

1104-B

17x23



PRINTED IN U.S.A.
NATIONAL SAFETY COUNCIL

0576-A

8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL
9573-B 17x23



NATIONAL SAFETY COUNCIL
0144-B 17x23



NATIONAL SAFETY COUNCIL
0813-B 17x23



NATIONAL SAFETY COUNCIL
0073-A 8 1/2x11 1/2

POSTERS ARE AVAILABLE ONLY IN SIZES SHOWN BELOW CUTS



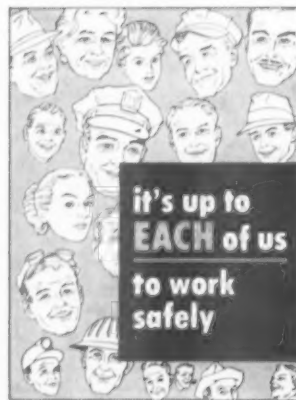
NATIONAL SAFETY COUNCIL
9745-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0312-B 17x23



NATIONAL SAFETY COUNCIL
0850-B 17x23



NATIONAL SAFETY COUNCIL
1107-B 17x23

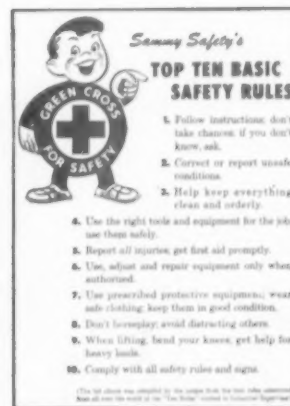
SEE ALSO THE MULTI-COLORED POSTERS IN CENTER SECTION



NATIONAL SAFETY COUNCIL
0618-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0770-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0667-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
9705-B 17x23



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1167-B 17x23



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0903-B 17x23



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0063-B 17x23



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0352-A 8 1/2x11 1/2

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0744-A 8 1/2x11 1/2



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1065-A 8 1/2x11 1/2



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0658-A 8 1/2x11 1/2



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1021-B 17x23

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9394-A 8 1/2x11 1/2



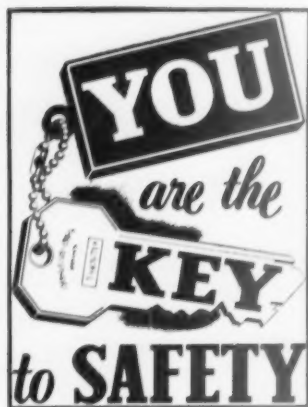
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© NATIONAL SAFETY COUNCIL
9715-B 17x23



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0939-B 17x23



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0904-A 8 1/2x11 1/2



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1041-B

17x23



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NATIONAL SAFETY COUNCIL

0940-A

8 1/2 x 11 1/2



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NATIONAL SAFETY COUNCIL

1066-A

8 1/2 x 11 1/2



PRINTED IN U.S.A.
NATIONAL SAFETY COUNCIL

0953-B

17x23

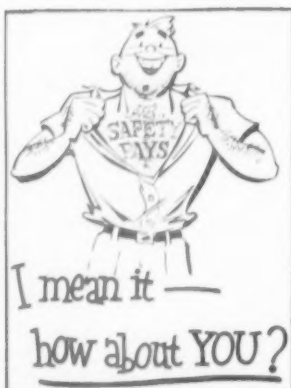
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8699-A

8 1/2 x 11 1/2



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NATIONAL SAFETY COUNCIL

1045-B

17x23



PRINTED IN U.S.A.
NATIONAL SAFETY COUNCIL

0039-A

8 1/2 x 11 1/2



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9969-A

8 1/2 x 11 1/2

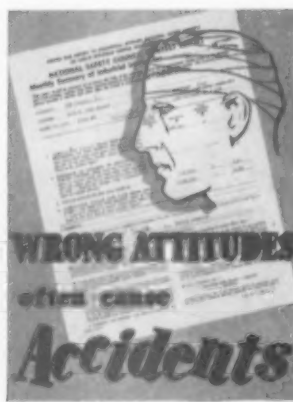
SEE ALSO THE MULTI-COLORED POSTERS IN CENTER SECTION



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0384-A

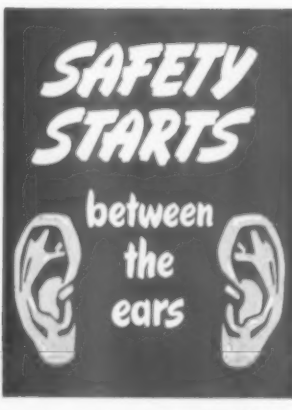
8 1/2 x 11 1/2



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0668-A

8 1/2 x 11 1/2



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9024-A

8 1/2 x 11 1/2



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0688-A

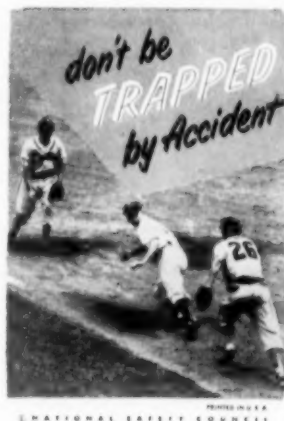
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0716-A 8 1/2 x 11 1/2



0706-A 8 1/2 x 11 1/2

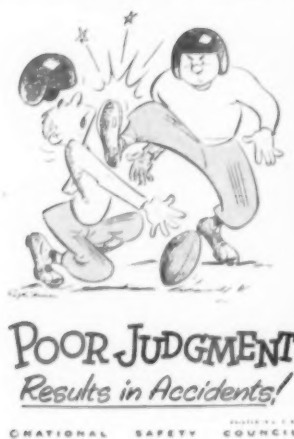


0795-A 8 1/2 x 11 1/2



0996-A 8 1/2 x 11 1/2

WATCH FOR NEW POSTERS MONTHLY IN NATIONAL SAFETY NEWS



0879-A 8 1/2 x 11 1/2



9890-A 8 1/2 x 11 1/2



0895-B 17 x 23



1016-A 8 1/2 x 11 1/2

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8442-A 8 1/2 x 11 1/2



0796-A 8 1/2 x 11 1/2



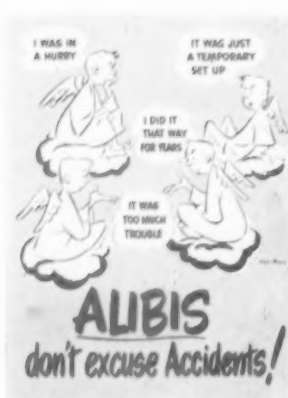
9275-A 8 1/2 x 11 1/2



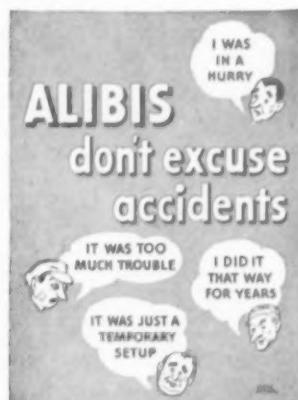
1058-A 8 1/2 x 11 1/2



0833-A 8 1/2 x 11 1/2



0852-B 17x23



8474-A 8 1/2 x 11 1/2



0009-A 8 1/2 x 11 1/2

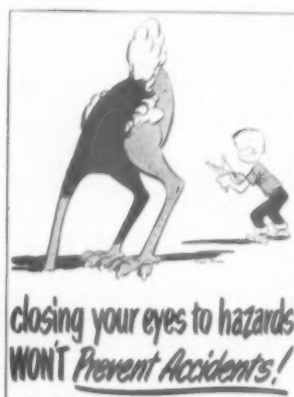
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0959-A 8 1/2 x 11 1/2



1061-A 8 1/2 x 11 1/2

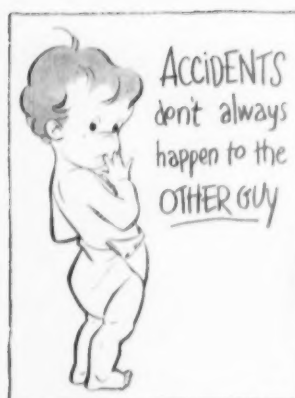


0661-A 8 1/2 x 11 1/2

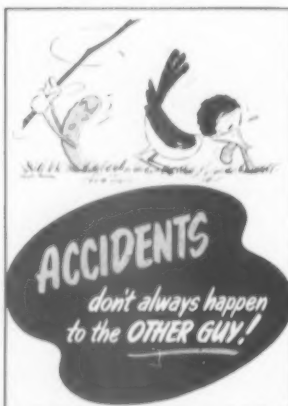


1156-B 17x23

SEE ALSO THE MULTI-COLORED POSTERS IN CENTER SECTION



0526-A 8 1/2 x 11 1/2



0211-A 8 1/2 x 11 1/2



0567-A 8 1/2 x 11 1/2



0994-B 17x23

MISCELLANEOUS—

including horseplay, new employees, score sheets, signs, rules, off-the-job, etc.



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1063-B

17x23



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0594-A

8 1/2 x 11 1/2



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8491-A

8 1/2 x 11 1/2



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8274-A

8 1/2 x 11 1/2

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1111-A

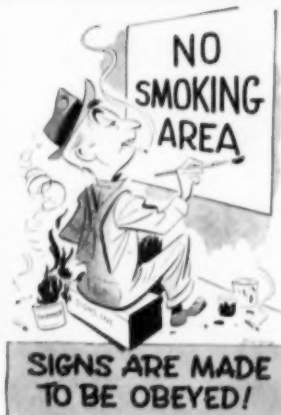
8 1/2 x 11 1/2



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8977-A

8 1/2 x 11 1/2



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0098-A

8 1/2 x 11 1/2



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0740-A

8 1/2 x 11 1/2

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0168-A

8 1/2 x 11 1/2



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0547-A

8 1/2 x 11 1/2



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NATIONAL SAFETY COUNCIL

0080-A

8 1/2 x 11 1/2



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NATIONAL SAFETY COUNCIL

1155-A

8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL
0648-A 8½x11½



NATIONAL SAFETY COUNCIL
0378-A 8½x11½



NATIONAL SAFETY COUNCIL
0645-A 8½x11½



NATIONAL SAFETY COUNCIL
1205-A 8½x11½

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NATIONAL SAFETY COUNCIL
9852-A 8½x11½



NATIONAL SAFETY COUNCIL
0575-A 8½x11½



NATIONAL SAFETY COUNCIL
0949-A 8½x11½



NATIONAL SAFETY COUNCIL
0674-A 8½x11½

SEE ALSO THE MULTI-COLORED POSTERS IN CENTER SECTION



NATIONAL SAFETY COUNCIL
0662-A 8½x11½



NATIONAL SAFETY COUNCIL
9509-A 8½x11½



NATIONAL SAFETY COUNCIL
T-1195-A 8½x11½
T-1184-B 17x23
T-1194-C 25x38



NATIONAL SAFETY COUNCIL
T-1209-C 25x38
T-1210-A 8½x11½



NATIONAL SAFETY COUNCIL
0425-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
8836-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0167-A 8 1/2x11 1/2

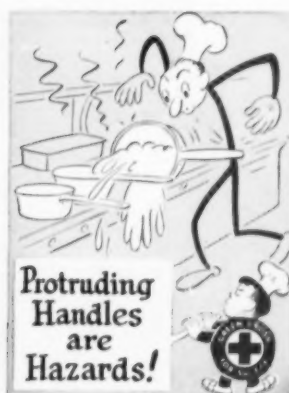


NATIONAL SAFETY COUNCIL
0768-A 8 1/2x11 1/2

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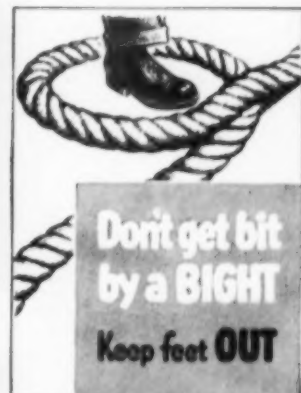
NATIONAL SAFETY COUNCIL
0011-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0770-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
8487-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
9272-A 8 1/2x11 1/2

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NATIONAL SAFETY COUNCIL
8310-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
9462-A 8 1/2x11 1/2



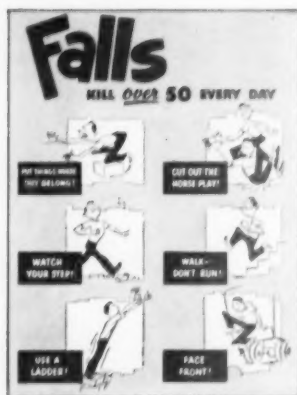
NATIONAL SAFETY COUNCIL
8355-B 17x23



NATIONAL SAFETY COUNCIL
8814-A 8 1/2x11 1/2

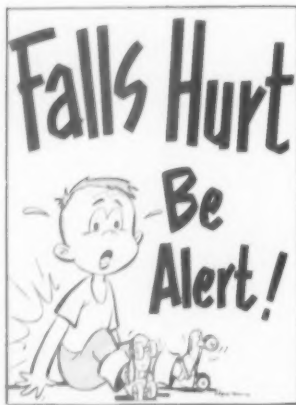
FALLS

See also: D-20; D-37; D-7—1021-B; D-19—1022-A; D-38—1221-A, 1224-A; D-51—0749-A.



9531-B

17x23



0831-B

17x23



0484-A

8½x11½



0588-B

17x23

POSTERS ARE AVAILABLE ONLY IN SIZES SHOWN BELOW CUTS



0630-A

8½x11½



8877-A

8½x11½



1060-A

8½x11½



0617-A

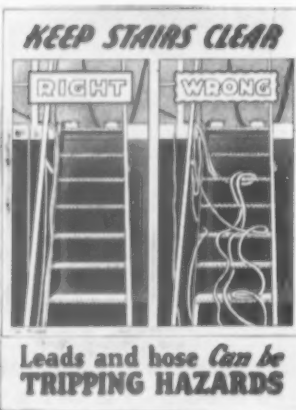
8½x11½

SEE ALSO THE MULTI-COLORED POSTERS IN CENTER SECTION



9281-A

8½x11½



7531-A

8½x11½



8128-A

8½x11½

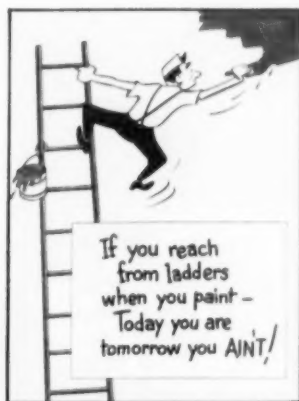


9347-A

8½x11½



0263-A 8 1/2 x 11 1/2



0830-A 8 1/2 x 11 1/2



0173-A 8 1/2 x 11 1/2



9840-A 8 1/2 x 11 1/2

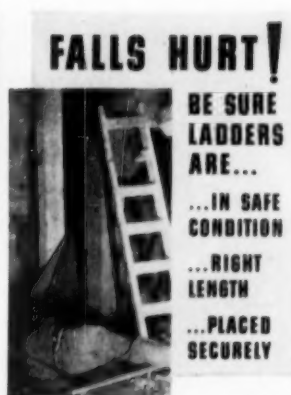
WATCH FOR NEW POSTERS MONTHLY IN NATIONAL SAFETY NEWS



8217-A 8 1/2 x 11 1/2



8434-A 8 1/2 x 11 1/2

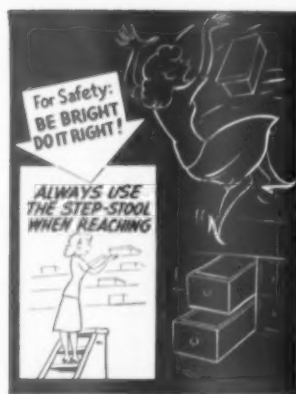


1165-A 8 1/2 x 11 1/2



1043-A 8 1/2 x 11 1/2

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0747-A 8 1/2 x 11 1/2



0632-A 8 1/2 x 11 1/2



8099-A 8 1/2 x 11 1/2



7425-A 8 1/2 x 11 1/2



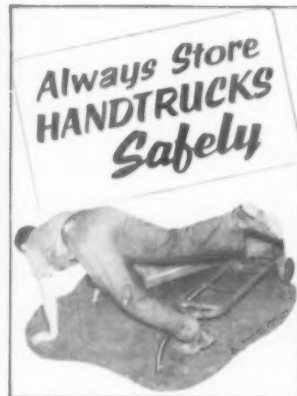
0718-A 8 1/2x11 1/2



0743-A 8 1/2x11 1/2



0741-A 8 1/2x11 1/2

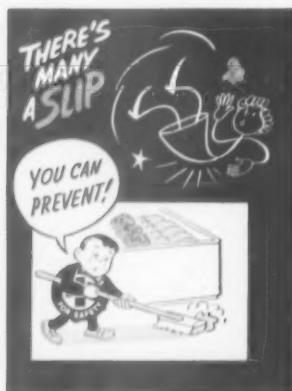


0797-A 8 1/2x11 1/2

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0828-A 8 1/2x11 1/2



0817-A 8 1/2x11 1/2



0964-A 8 1/2x11 1/2



0772-A 8 1/2x11 1/2

SEE ALSO THE MULTI-COLORED POSTERS IN CENTER SECTION



0712-A 8 1/2x11 1/2



0973-B 17x23



0170-A 8 1/2x11 1/2



7879-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0677-B 17x23



NATIONAL SAFETY COUNCIL
0549-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
8849-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0792-B 17x23

WATCH FOR NEW POSTERS MONTHLY IN NATIONAL SAFETY NEWS



NATIONAL SAFETY COUNCIL
8548-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
9806-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
8323-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
8050-A 8 1/2x11 1/2

POSTERS MINIATURED HERE ARE PRINTED IN TWO OR MORE COLORS



NATIONAL SAFETY COUNCIL
0945-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0951-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
8356-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
1143-B 17x23



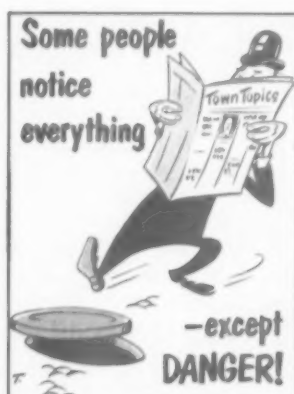
NATIONAL SAFETY COUNCIL

0434-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0721-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

1175-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

1144-A 8 1/2 x 11 1/2

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NATIONAL SAFETY COUNCIL

0687-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

8228-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

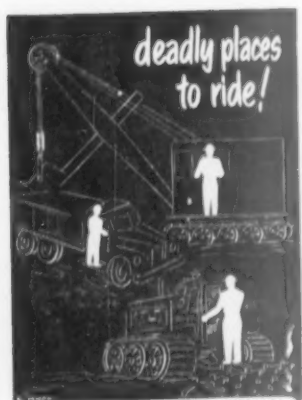
0452-B 17x23



NATIONAL SAFETY COUNCIL

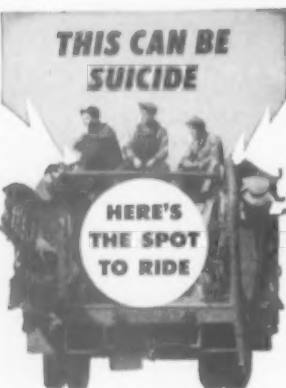
0042-A 8 1/2 x 11 1/2

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NATIONAL SAFETY COUNCIL

0436-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0348-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

8573-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

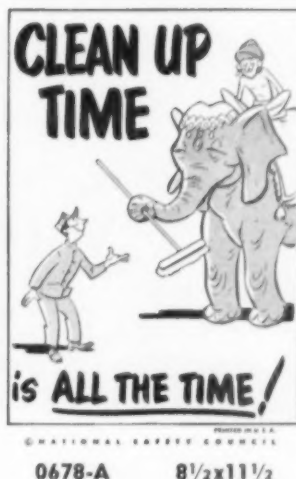
7555-A 8 1/2 x 11 1/2

HOUSEKEEPING

See also: D-37; D-41.



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NATIONAL SAFETY COUNCIL

0157-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

1003-B 17 x 23



NATIONAL SAFETY COUNCIL

8837-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

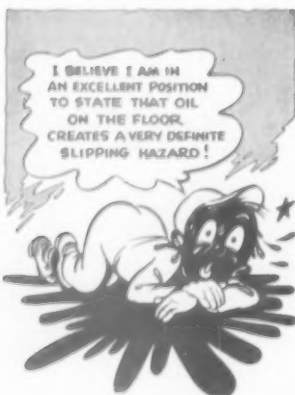
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NATIONAL SAFETY COUNCIL

9083-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

8966-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

9405-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0952-A 8 1/2 x 11 1/2

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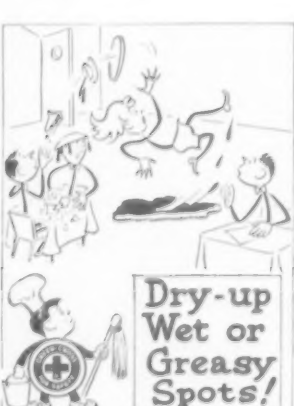
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NATIONAL SAFETY COUNCIL

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NATIONAL SAFETY COUNCIL

0608-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0727-A 8 1/2 x 11 1/2

ELECTRICITY



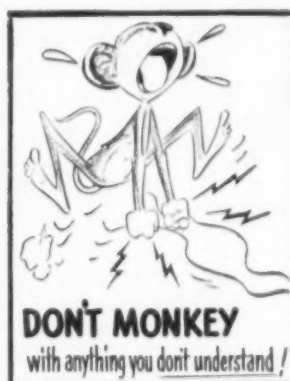
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0819-A 8 1/2x11 1/2



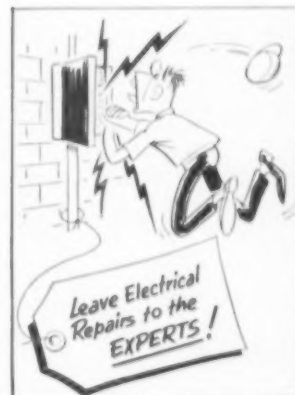
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9539-A 8 1/2x11 1/2



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0497-A 8 1/2x11 1/2



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0860-A 8 1/2x11 1/2

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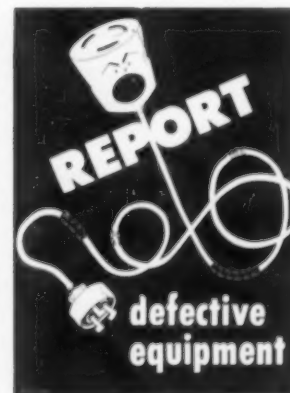
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1024-A 8 1/2x11 1/2



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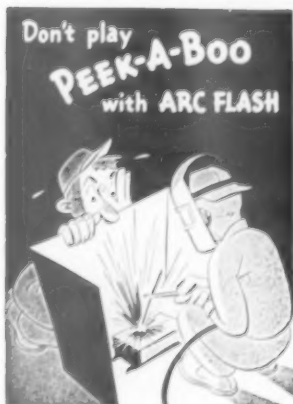
0993-A 8 1/2x11 1/2



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9366-A 8 1/2x11 1/2



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0573-A 8 1/2x11 1/2



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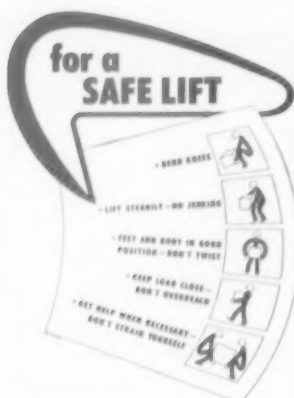
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MATERIALS HANDLING—manual

See also: D-36—0353-A.



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NATIONAL SAFETY COUNCIL
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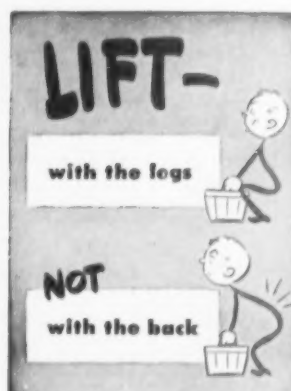


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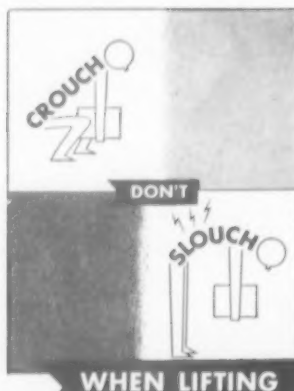


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0982-A 8 1/2x11 1/2

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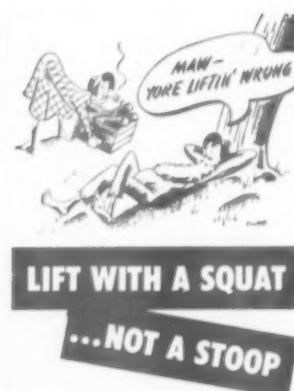
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NATIONAL SAFETY COUNCIL
0139-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
9972-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
9232-A 8 1/2x11 1/2

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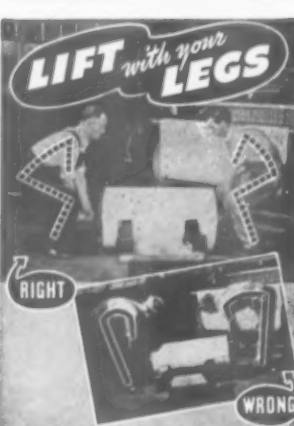
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7987-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
9380-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
7499-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
9019-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0763-A 8 1/2x11 1/2

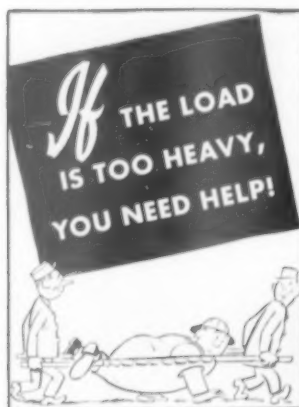


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0571-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0480-A 8 1/2x11 1/2

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0599-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
8880-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
9276-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0881-A 8 1/2x11 1/2

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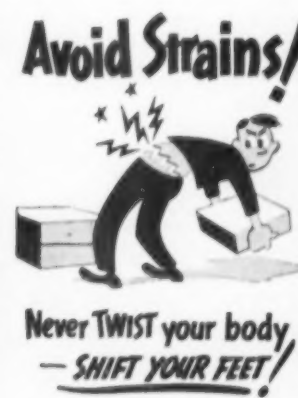
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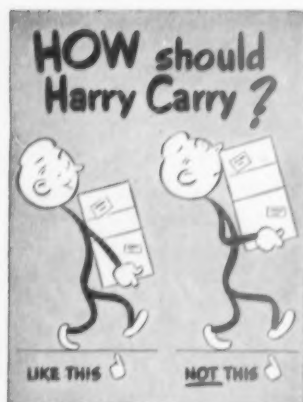
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8665-B 17x23



NATIONAL SAFETY COUNCIL
1044-B 17x23



NATIONAL SAFETY COUNCIL
0546-B 17x23



NATIONAL SAFETY COUNCIL

8586-A

8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

0476-A

8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

0909-B

17x23



NATIONAL SAFETY COUNCIL

8660-A

8 1/2x11 1/2

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NATIONAL SAFETY COUNCIL

0519-A

8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

1161-A

8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

1018-A

8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

1002-A

8 1/2x11 1/2

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NATIONAL SAFETY COUNCIL

9980-A

8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

8794-A

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8473-A

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1163-A

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8204-A

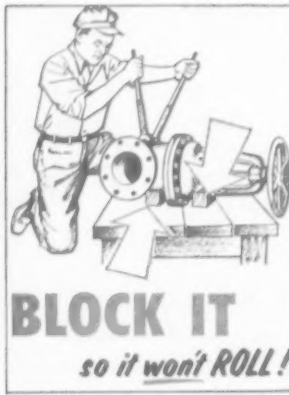
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NATIONAL SAFETY COUNCIL
0396-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL
8959-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL
0624-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL
8956-A 8 1/2 x 11 1/2

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9585-A 8 1/2 x 11 1/2



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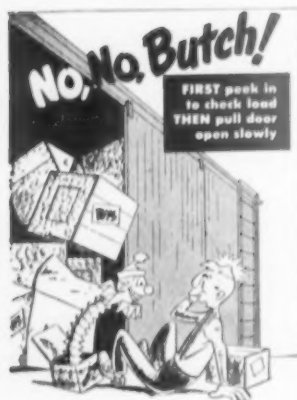


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NATIONAL SAFETY COUNCIL
1000-A 8 1/2 x 11 1/2

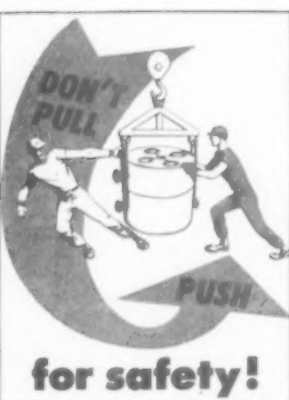
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NATIONAL SAFETY COUNCIL
9204-B 17x23



NATIONAL SAFETY COUNCIL
9218-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL
0230-A 8 1/2 x 11 1/2

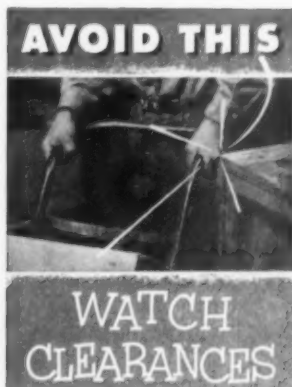


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0947-A 8 1/2x11 1/2



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1115-B 17x23



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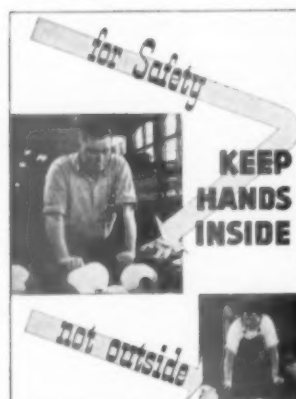
8636-A 8 1/2x11 1/2



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7723-A 8 1/2x11 1/2

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8937-A 8 1/2x11 1/2



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8625-A 8 1/2x11 1/2



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8070-A 8 1/2x11 1/2



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1046-B 17x23



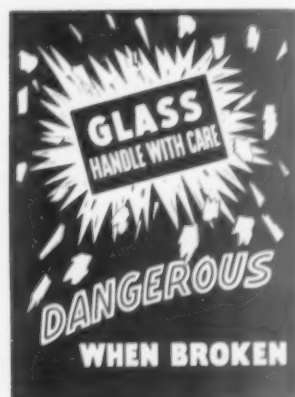
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9419-A 8 1/2x11 1/2



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NATIONAL SAFETY COUNCIL

0663-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

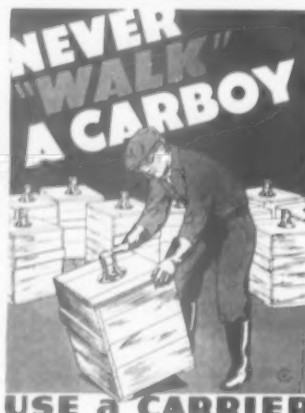
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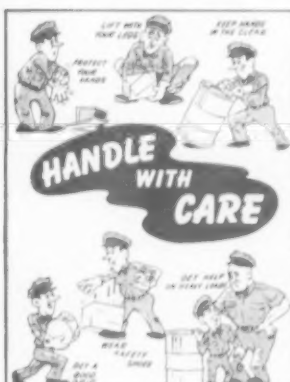
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8550-A 8 1/2x11 1/2



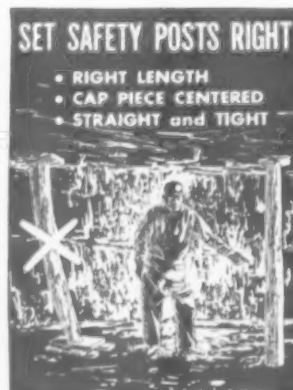
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NATIONAL SAFETY COUNCIL

9517-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

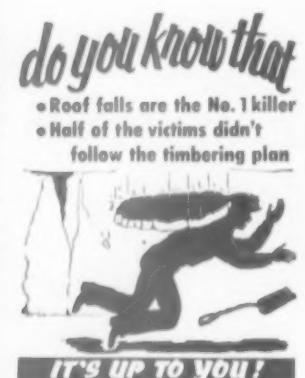
0126-A 8 1/2x11 1/2

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NATIONAL SAFETY COUNCIL

0439-A 8 1/2x11 1/2



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0499-A 8 1/2x11 1/2



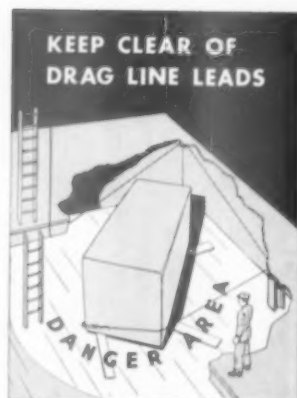
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NATIONAL SAFETY COUNCIL

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NATIONAL SAFETY COUNCIL

0390-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0282-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

7877-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

8793-A 8 1/2 x 11 1/2

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8658-A 8 1/2 x 11 1/2



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8695-A 8 1/2 x 11 1/2



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8545-A 8 1/2 x 11 1/2



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6241-A 8 1/2 x 11 1/2

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0236-A 8 1/2 x 11 1/2



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7536-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0842-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

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MATERIALS HANDLING—mechanical

See also: D-17—0549-A, 0677-B; D-55—8076-A.



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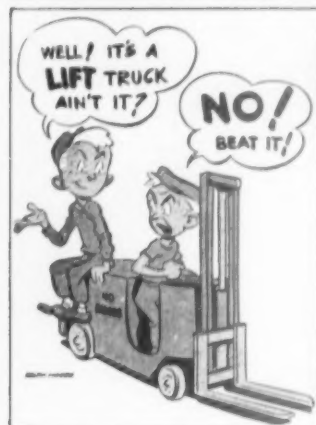


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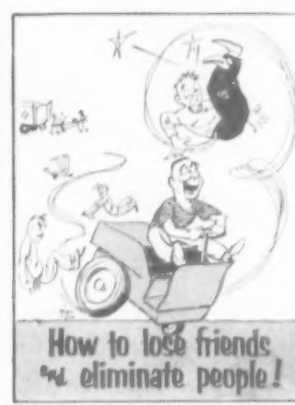
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0209-A

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0568-A

8 1/2 x 11 1/2

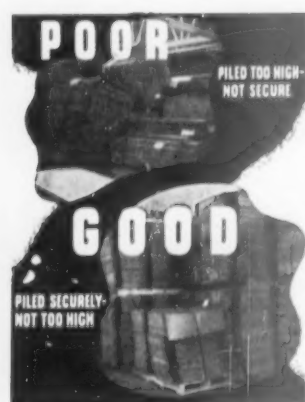


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9458-A

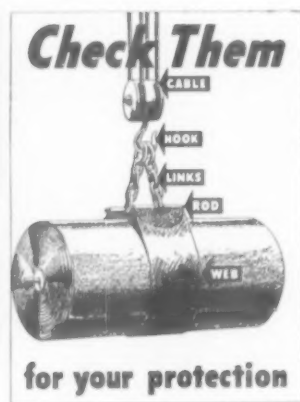
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8646-A

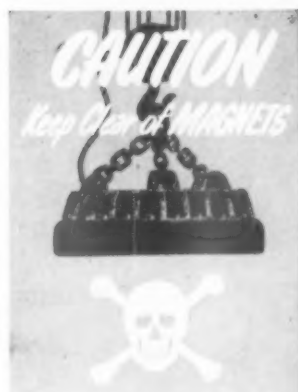
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9213-A

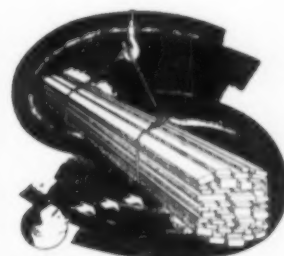
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0649-A 8 1/2x11 1/2



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BE ALERT TO
OVERHEAD LOADS

if it's in the AIR—
IT'S DANGEROUS!

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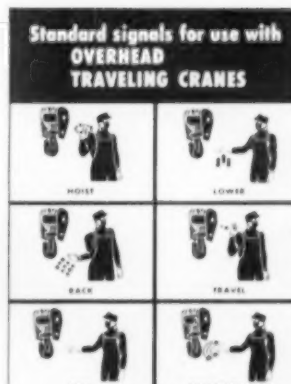
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1192-A 8 1/2x11 1/2



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1208-A 8 1/2x11 1/2

SEASONAL & HOLIDAY

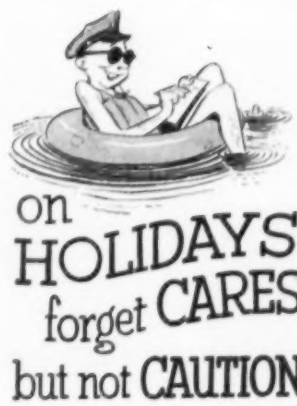
See also: D-33; D-39; D-62; D-55—1172-B; D-64—V-8929-B; D-65—V-0613-B; D-68—V-0050-A.



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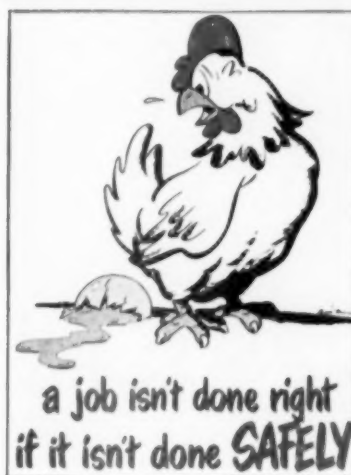
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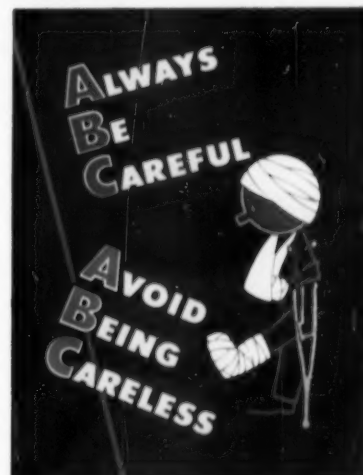
FOUR-COLOR POSTERS—all subjects



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0811-A 8 1/2 x 11 1/2



0780-A 8 1/2 x 11 1/2



0708-A 8 1/2 x 11 1/2



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8976-A 8 1/2 x 11 1/2



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9367-A 8 1/2 x 11 1/2



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9783-A 8 1/2 x 11 1/2



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8612-A 8 1/2 x 11 1/2



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1103-A 8 1/2 x 11 1/2



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9623-A 8 1/2 x 11 1/2



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0228-A 8 1/2 x 11 1/2



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0373-A 8 1/2 x 11 1/2



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9286-A 8 1/2 x 11 1/2



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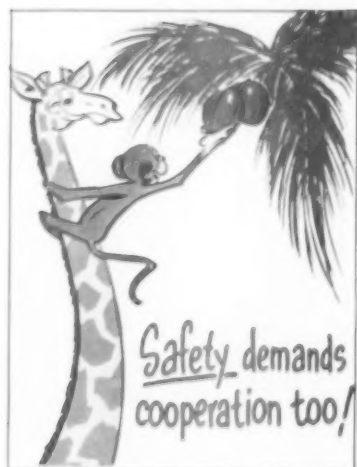
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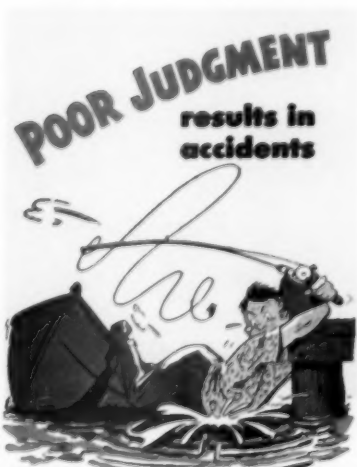
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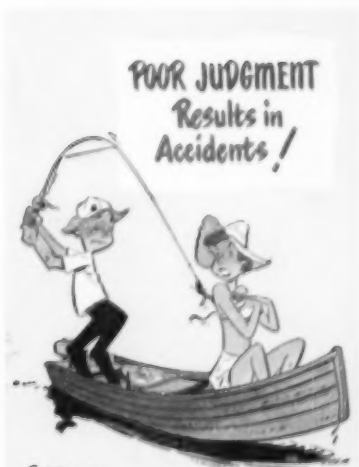
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9268-A 8 1/2 x 11 1/2



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9569-A 8 1/2 x 11 1/2



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9070-A 8 1/2 x 11 1/2



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9902-A 8 1/2 x 11 1/2



8630-A 8 1/2 x 11 1/2



0146-A 8 1/2 x 11 1/2



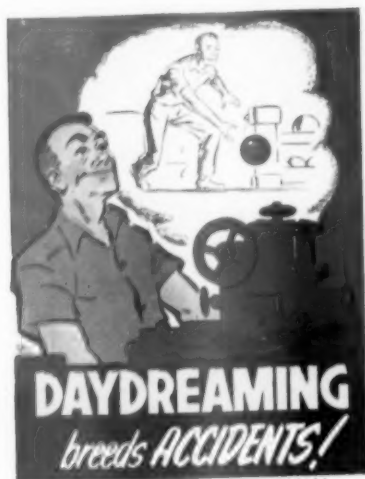
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0642-A

8 1/2 x 11 1/2



0815-A

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9497-A

8 1/2 x 11 1/2



0220-A

8 1/2 x 11 1/2



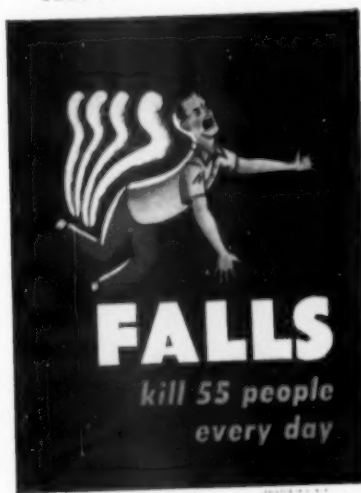
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1221-A 8 1/2 x 11 1/2



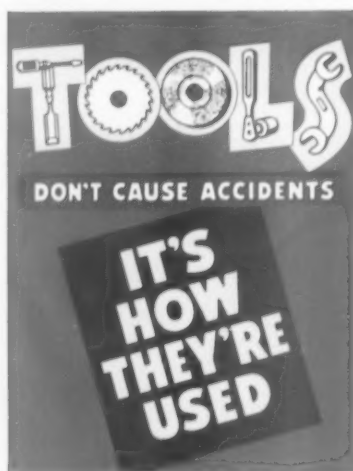
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0598-A 8 1/2 x 11 1/2



8790-A 8 1/2 x 11 1/2



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8 1/2 x 11 1/2



9436-A

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0960-A

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0714-A

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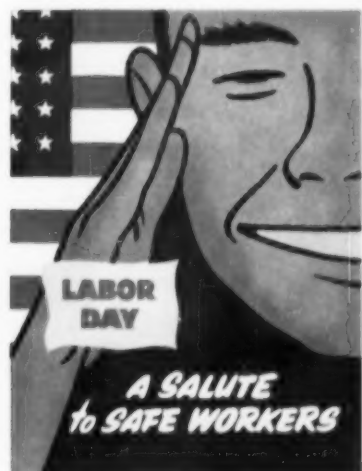
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8754-A

8 1/2 x 11 1/2



1101-A

8 1/2 x 11 1/2



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8457-A 8 1/2x11 1/2



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8469-A 8 1/2x11 1/2



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0283-A 8 1/2x11 1/2



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9695-A 8 1/2x11 1/2



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V-9799-A 8 1/2x11 1/2



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V-9983-A 8 1/2x11 1/2



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V-0849-A 8 1/2x11 1/2



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V-0408-A 8 1/2x11 1/2



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V-8652-A 8 1/2x11 1/2

FIRE & EXPLOSION

See also: D-38; D-20—8837-A; D-21—0533-A.



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0122-A 8 1/2 x 11 1/2



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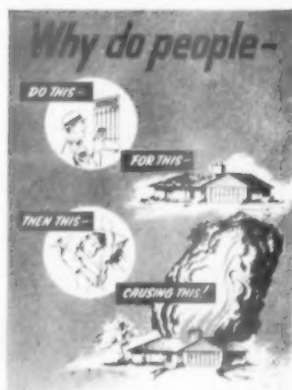
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0832-B 17 x 23



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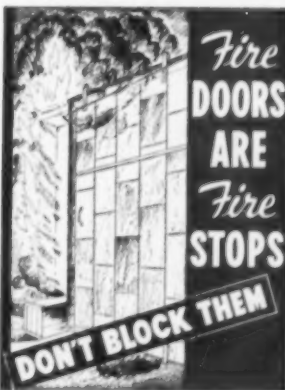
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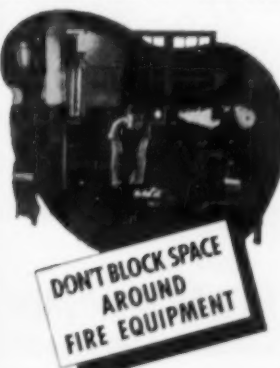
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KEEP AISLES CLEAR!



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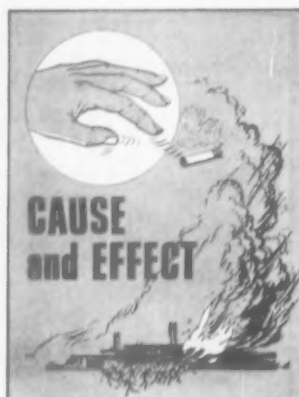


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| CLASSES OF FIRES | | | | |
|---|--------------------------------------|--|----------------------------------|---------------------------------|
| CLASS A FIRES WOOD, PAPER, RUBBER, TEXTILE, ETC. | CLASS B FIRES OIL, GREASE, PAINTS | CLASS C FIRES LIVE ELECTRICAL EQUIPMENT | CLASS D FIRES MAGNETIC LIQUID | CLASS E FIRES CARBON DIOXIDE |
| FOAM OR SODA-ACID | WATER PUMP | GAS CARTRIDGE | DRY CHEMICAL | DRY CHEMICAL |
| FOAM | IMPERVIOUS LIQUID | CARBON DIOXIDE | DRY CHEMICAL | DRY CHEMICAL |
| FOAM | IMPERVIOUS LIQUID | CARBON DIOXIDE | DRY CHEMICAL | DRY CHEMICAL |
| FOAM | IMPERVIOUS LIQUID | CARBON DIOXIDE | DRY CHEMICAL | DRY CHEMICAL |

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FIRE EXTINGUISHER FACTS

| TYPE OF EXTINGUISHER | FOR WHAT KINDS OF FIRES | CONTENTS | HOW TO APPLY | RANGE AND WEIGHT |
|----------------------|-------------------------|------------------------|------------------------------------|-------------------------------|
| FOAM | CLASS A | Water solution of foam | Hold nozzle at least 18" from fire | 10 to 20 ft. 10 to 20 lbs. |
| WATER | CLASS A | Water | Hold nozzle at least 18" from fire | 10 to 20 ft. 10 to 20 lbs. |
| CO ₂ | CLASS B | Carbon dioxide | Hold nozzle at least 18" from fire | 10 to 20 ft. 10 to 20 lbs. |
| DRY CHEMICAL | CLASS B | Dry chemical | Hold nozzle at least 18" from fire | 10 to 20 ft. 10 to 20 lbs. |
| WATER | CLASS A | Water | Hold nozzle at least 18" from fire | 10 to 20 ft. 10 to 20 lbs. |
| FOAM | CLASS A | Water solution of foam | Hold nozzle at least 18" from fire | 10 to 20 ft. 10 to 20 lbs. |
| CO ₂ | CLASS B | Carbon dioxide | Hold nozzle at least 18" from fire | 10 to 20 ft. 10 to 20 lbs. |
| DRY CHEMICAL | CLASS B | Dry chemical | Hold nozzle at least 18" from fire | 10 to 20 ft. 10 to 20 lbs. |

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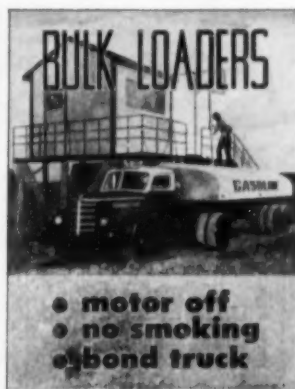
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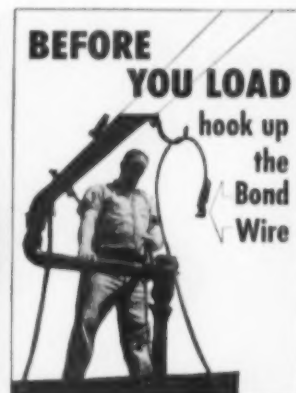
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8919-A 8 1/2x11 1/2



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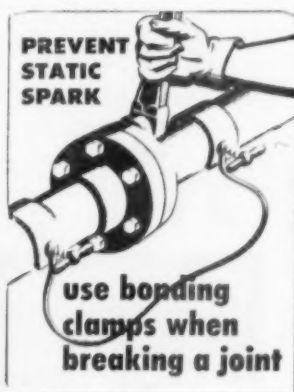
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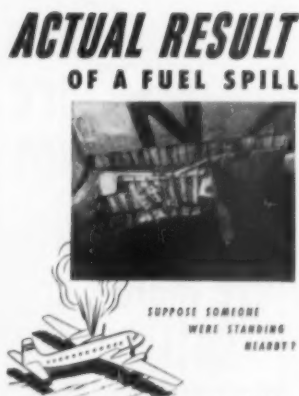
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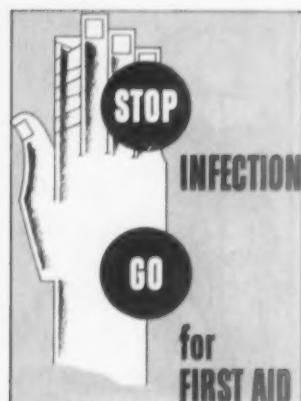
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FIRST AID & HEALTH



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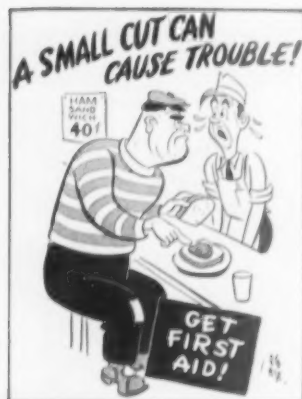


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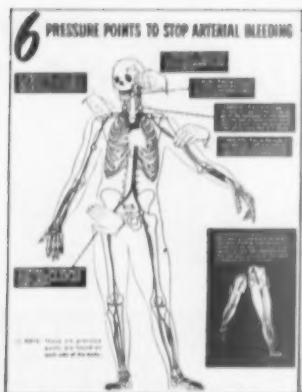


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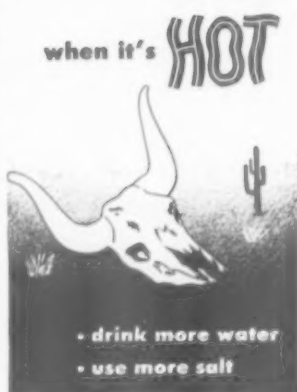
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CHEMICALS & GASES

See also: D-28—7940-A; D-50—0745-A.



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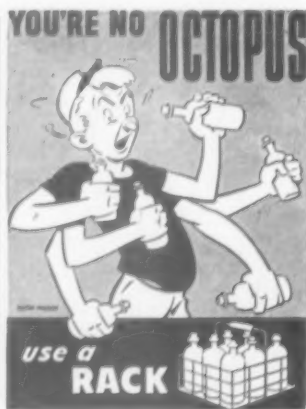
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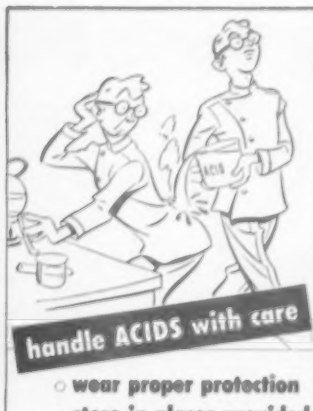
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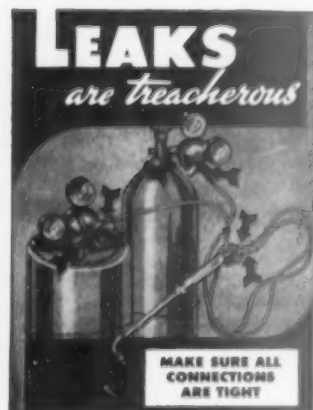
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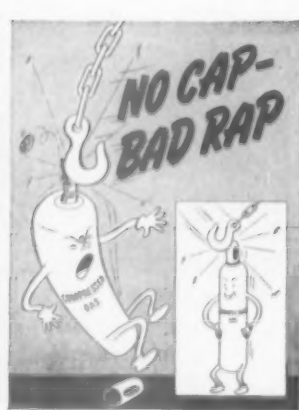
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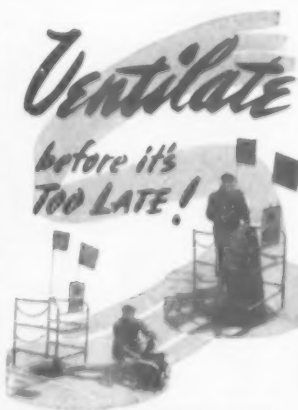
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CLOTHING & PERSONAL PROTECTIVE EQUIPMENT



**Tell The NEW MAN
About Wearing
PROTECTIVE EQUIPMENT**

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*protective equipment is
ALWAYS IN SEASON!*

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**HE'S DRESSED SAFE
FOR HIS JOB --- are you!**

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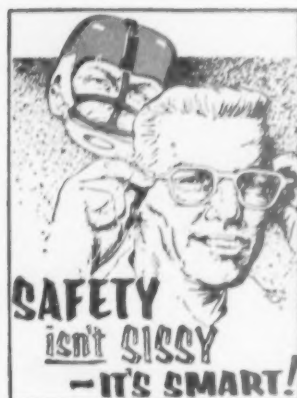
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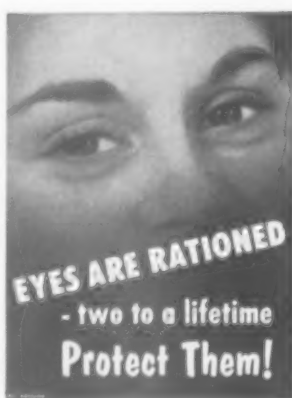
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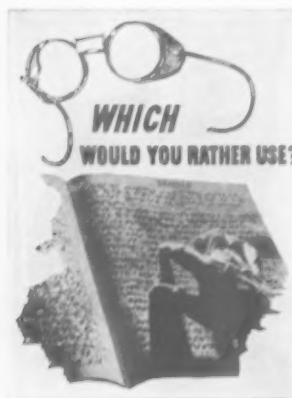
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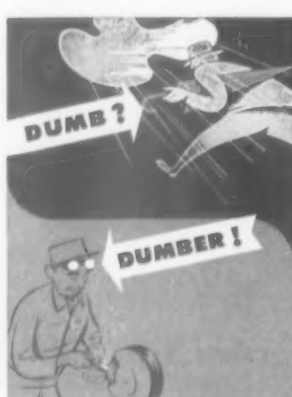
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0941-B 17x23



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1145-A 8 1/2x11 1/2

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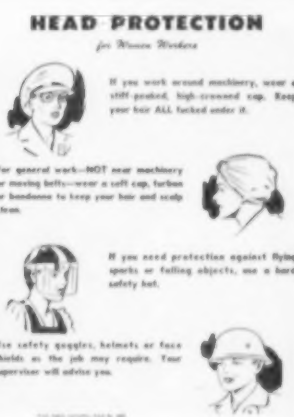
7535-B 17x23



1029-B 17x23



0798-A 8 1/2x11 1/2



7581-A 8 1/2x11 1/2

POSTERS MINIATURED HERE ARE PRINTED IN TWO OR MORE COLORS



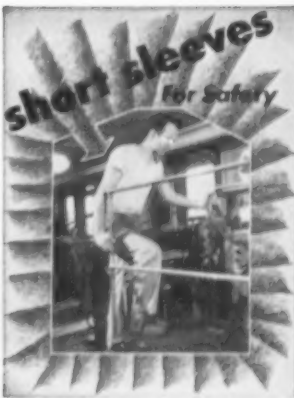
9776-A 8 1/2x11 1/2



0944-B 17x23



0596-A 8 1/2x11 1/2



8762-A 8 1/2x11 1/2



7623-A 8 1/2x11 1/2



7467-A 8 1/2x11 1/2



8418-A 8 1/2x11 1/2



0309-A 8 1/2x11 1/2

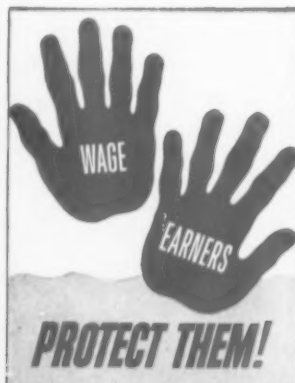
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1160-B 17x23



1017-A 8 1/2x11 1/2



0545-A 8 1/2x11 1/2



9924-A 8 1/2x11 1/2

SEE ALSO THE MULTI-COLORED POSTERS IN CENTER SECTION



0978-B 17x23



0745-A 8 1/2x11 1/2



8013-A 8 1/2x11 1/2



8767-A 8 1/2x11 1/2



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0766-A 8 1/2x11 1/2



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0974-A 8 1/2x11 1/2



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0491-A 8 1/2x11 1/2



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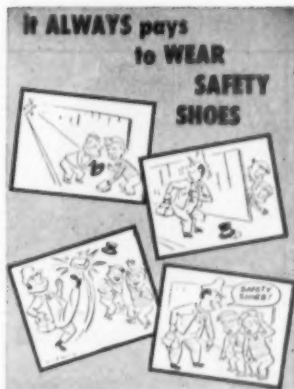
0554-A 8 1/2x11 1/2

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0905-B 17x23



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0950-B 17x23



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0841-B 17x23



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9304-A 8 1/2x11 1/2

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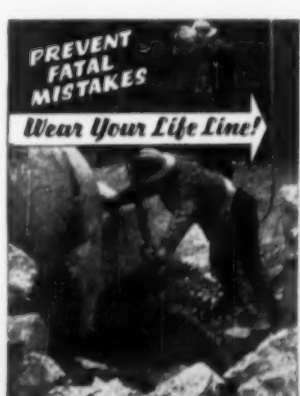
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0749-A 8 1/2x11 1/2



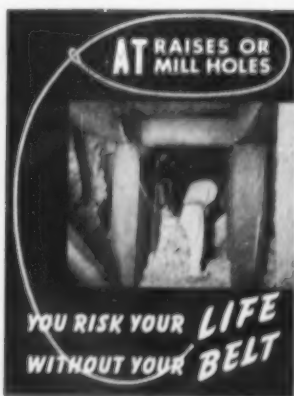
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9003-A 8 1/2x11 1/2



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0637-A 8 1/2x11 1/2



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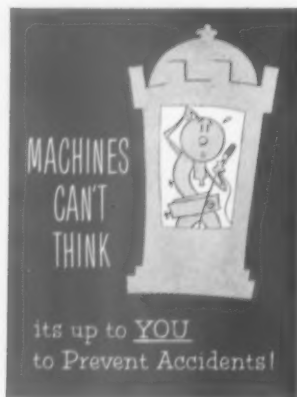
9522-A 8 1/2x11 1/2

MACHINERY

See also: D-49; D-50; D-43—9770-A; D-48—0943-A; D-60—9813-A.



NATIONAL SAFETY COUNCIL
0686-B 17x23



NATIONAL SAFETY COUNCIL
1035-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0880-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0710-A 8 1/2x11 1/2

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NATIONAL SAFETY COUNCIL
0399-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0021-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
8967-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
1039-A 8 1/2x11 1/2

SEE ALSO THE MULTI COLORED POSTERS IN CENTER SECTION



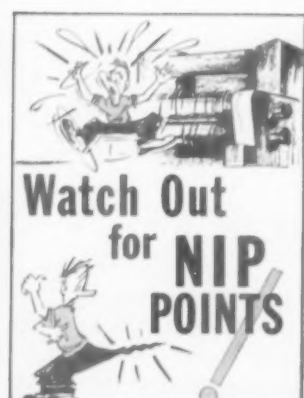
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0764-A 8 1/2x11 1/2



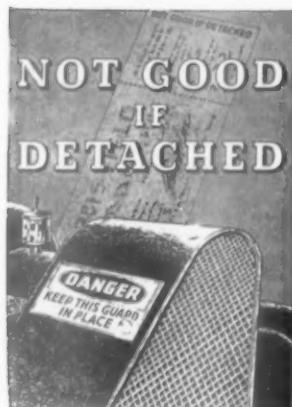
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8324-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0703-A 8 1/2x11 1/2

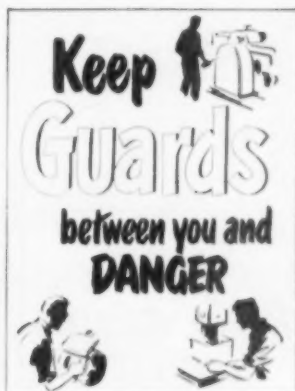


NATIONAL SAFETY COUNCIL
0670-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

8166-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

9654-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

9823-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

0143-A 8 1/2x11 1/2

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NATIONAL SAFETY COUNCIL

8426-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

0816-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

9168-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL

0622-A 8 1/2x11 1/2

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NATIONAL SAFETY COUNCIL

1062-B 17x23



NATIONAL SAFETY COUNCIL

0750-B 17x23



NATIONAL SAFETY COUNCIL

0426-B 17x23



NATIONAL SAFETY COUNCIL

8094-A 8 1/2x11 1/2



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0145-A 8 1/2 x 11 1/2



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0400-A 8 1/2 x 11 1/2



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0593-A 8 1/2 x 11 1/2



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0657-A 8 1/2 x 11 1/2

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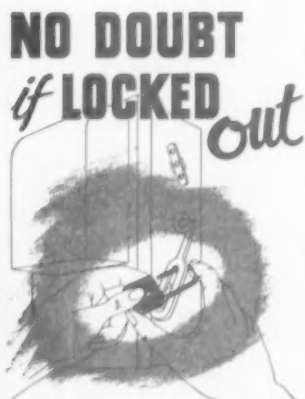
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9087-A 8 1/2 x 11 1/2



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1042-B 17x23



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0329-B 17x23



0883-A 8 1/2 x 11 1/2

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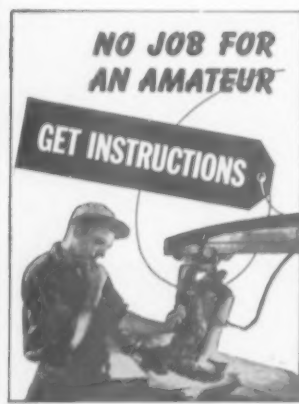
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1093-A 8 1/2 x 11 1/2



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8219-A 8 1/2 x 11 1/2



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8749-A 8 1/2 x 11 1/2



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0722-A 8 1/2 x 11 1/2



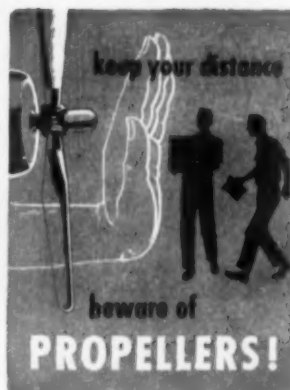
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1153-A 8 1/2 x 11 1/2



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8172-A 8 1/2 x 11 1/2



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0010-A 8 1/2 x 11 1/2



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9633-A 8 1/2 x 11 1/2

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1164-B 17x23



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1086-B 17x23



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9550-B 17x23



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0691-B 17x23

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1172-B 17x23



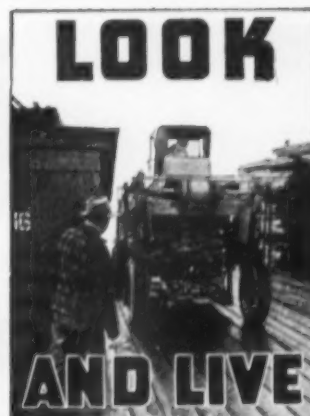
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8673-B 17x23



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0158-B 17x23



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8076-A 8 1/2 x 11 1/2



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NATIONAL SAFETY COUNCIL

1190-A

8 1/2 x 11 1/2



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9976-A

8 1/2 x 11 1/2



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NATIONAL SAFETY COUNCIL

0562-A

8 1/2 x 11 1/2

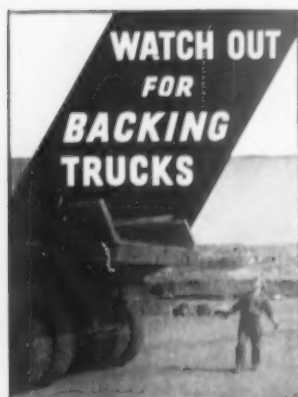


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7596-A

8 1/2 x 11 1/2

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0900-A

8 1/2 x 11 1/2



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NATIONAL SAFETY COUNCIL

0332-A

8 1/2 x 11 1/2



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NATIONAL SAFETY COUNCIL

0393-A

8 1/2 x 11 1/2



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0685-A

8 1/2 x 11 1/2

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0723-A

8 1/2 x 11 1/2



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9406-A

8 1/2 x 11 1/2



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0901-A

8 1/2 x 11 1/2



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NATIONAL SAFETY COUNCIL

8946-A

8 1/2 x 11 1/2



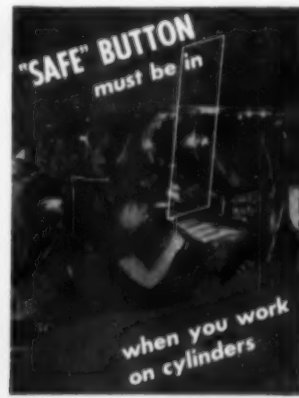
NATIONAL SAFETY COUNCIL
9420-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
8856-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
0232-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
9012-A 8 1/2x11 1/2

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NATIONAL SAFETY COUNCIL
8258-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
7750-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
9138-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
1069-A 8 1/2x11 1/2

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NATIONAL SAFETY COUNCIL
9011-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
8240-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
8666-A 8 1/2x11 1/2



NATIONAL SAFETY COUNCIL
1068-A 8 1/2x11 1/2

TOOLS—hand & powered

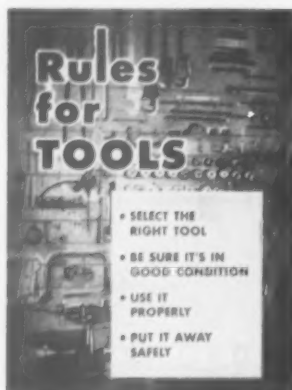
See also: D-38—1023-A; D-49—0518-A, 1029-B.



NATIONAL SAFETY COUNCIL

9040-B

17x23



NATIONAL SAFETY COUNCIL

9886-A

8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0269-A

8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0666-A

8 1/2 x 11 1/2

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NATIONAL SAFETY COUNCIL

8124-B

17x23



CHECK 'EM BEFORE YOU USE 'EM!

9035-B

17x23



8913-A

8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0625-A

8 1/2 x 11 1/2

SEE ALSO THE MULTI-COLORED POSTERS IN CENTER SECTION



NATIONAL SAFETY COUNCIL

0884-A

8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0695-A

8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

8838-A

8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

8668-A

8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

8100-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

1020-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0566-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

1005-B 17x23

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NATIONAL SAFETY COUNCIL

1112-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

9396-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0776-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

8819-A 8 1/2 x 11 1/2

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NATIONAL SAFETY COUNCIL

0655-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0548-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

0336-A 8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

1176-A 8 1/2 x 11 1/2



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0961-A 8 1/2x11 1/2



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9813-A 8 1/2x11 1/2



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7736-A 8 1/2x11 1/2



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0979-A 8 1/2x11 1/2

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0605-A 8 1/2x11 1/2



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8425-A 8 1/2x11 1/2



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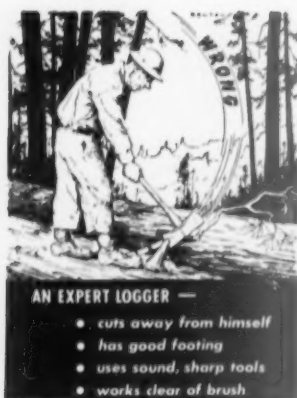
9417-A 8 1/2x11 1/2



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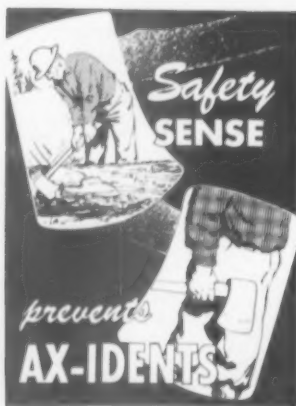
9416-A 8 1/2x11 1/2

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9557-A 8 1/2x11 1/2



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0857-A 8 1/2x11 1/2



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7463-A 8 1/2x11 1/2



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0855-A 8 1/2x11 1/2

MOTOR TRANSPORTATION—trucks, buses, taxicabs

See also: D-12; D-40—V-0849-A, V-8652-A.



NATIONAL SAFETY COUNCIL

V-8692-B

17x23



NATIONAL SAFETY COUNCIL

V-0602-B

17x23



NATIONAL SAFETY COUNCIL

V-0487-B

17x23

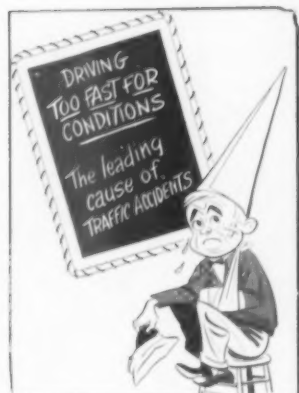


NATIONAL SAFETY COUNCIL

V-1157-A

8 1/2 x 11 1/2

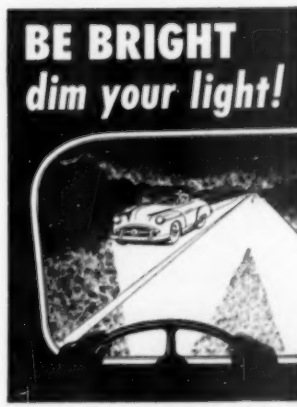
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NATIONAL SAFETY COUNCIL

V-0441-B

17x23



NATIONAL SAFETY COUNCIL

V-8894-A

8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

V-9065-A

8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

V-1225-A

8 1/2 x 11 1/2

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NATIONAL SAFETY COUNCIL

V-1052-B

17x23



NATIONAL SAFETY COUNCIL

V-1088-A

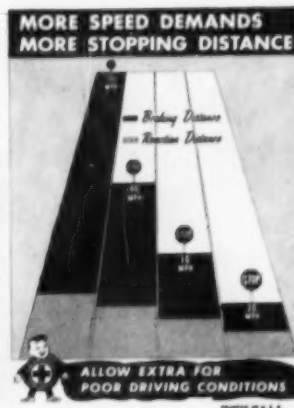
8 1/2 x 11 1/2



NATIONAL SAFETY COUNCIL

V-1140-B

17x23



NATIONAL SAFETY COUNCIL

V-1158-B

17x23



V-1201-B

17x23



V-1071-A

8 1/2 x 11 1/2



V-1226-B

17x23



V-0639-A

8 1/2 x 11 1/2

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V-0603-A

8 1/2 x 11 1/2



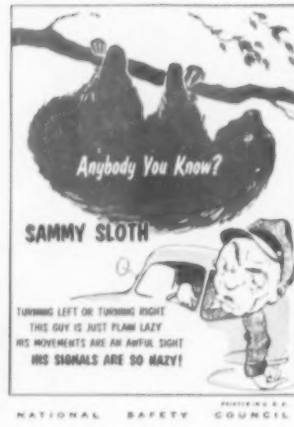
V-0488-A

8 1/2 x 11 1/2



V-7282-B

17x23



V-0129-A

8 1/2 x 11 1/2

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V-0151-B

17x23



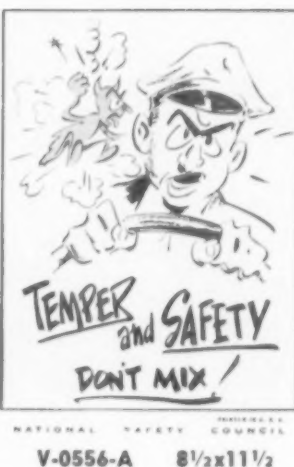
V-0334-A

8 1/2 x 11 1/2



V-8010-B

17x23

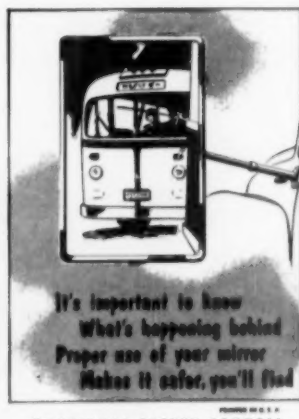


V-0556-A

8 1/2 x 11 1/2



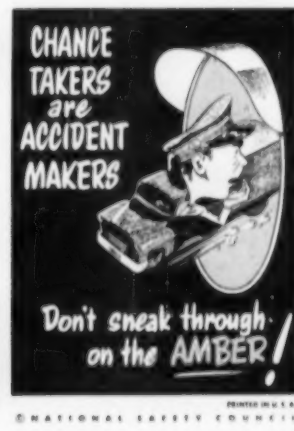
V-0755-B 17x23



V-0786-A 8 1/2x11 1/2



V-1070-A 8 1/2x11 1/2

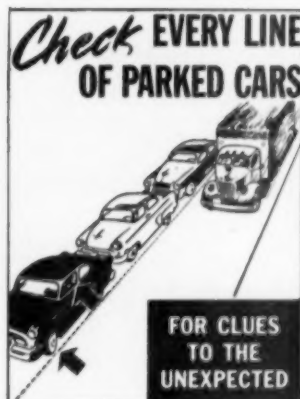


V-1089-A 8 1/2x11 1/2

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V-8757-B 17x23



V-9912-A 8 1/2x11 1/2



V-9552-B 17x23



V-9536-A 8 1/2x11 1/2

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V-9513-B 17x23



V-9490-A 8 1/2x11 1/2



V-9000-B 17x23



V-1154-A 8 1/2x11 1/2



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V-1087-B

17x23



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V-0162-A

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V-1072-B

17x23



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V-1006-A

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V-7908-B

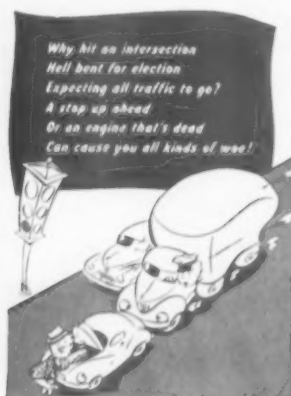
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V-8622-A

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V-8693-A

8 1/2 x 11 1/2

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V-8929-B

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V-9764-A

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V-8900-B

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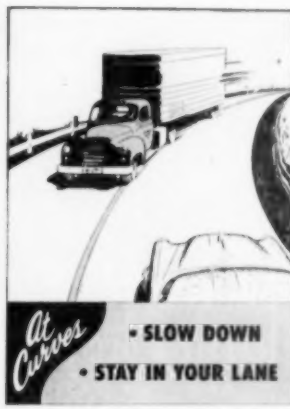
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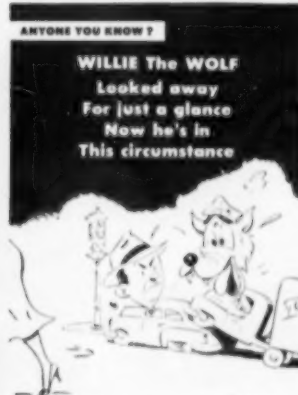
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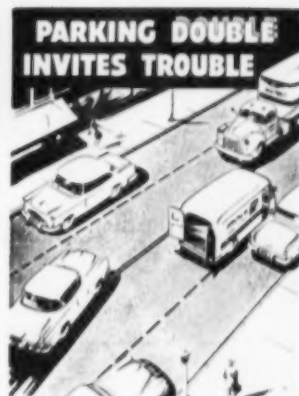
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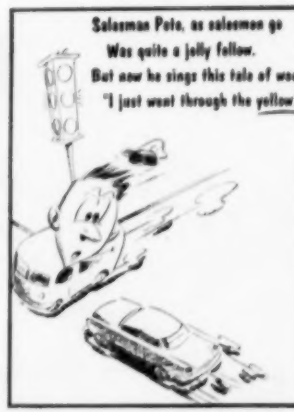
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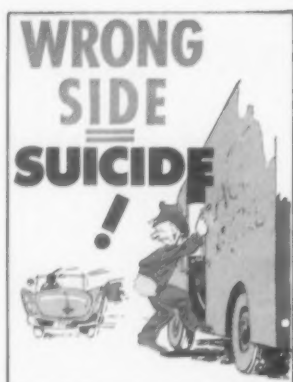
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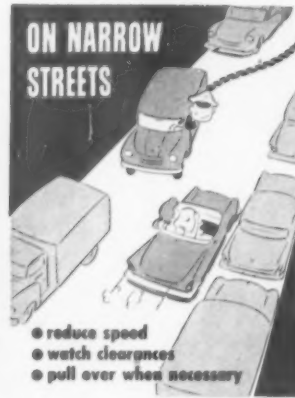
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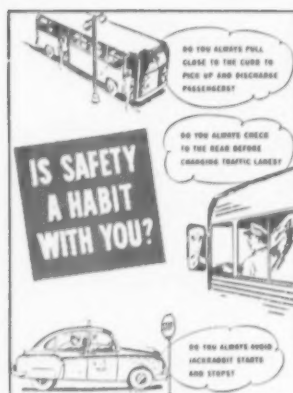
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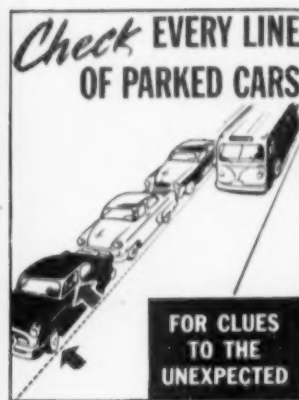
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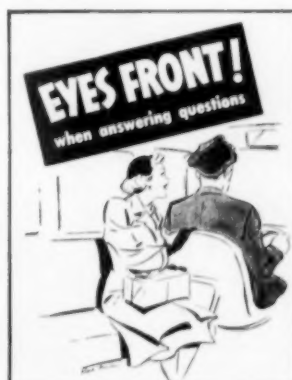
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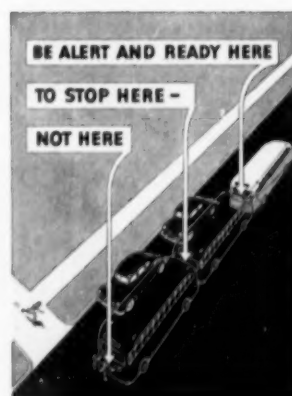
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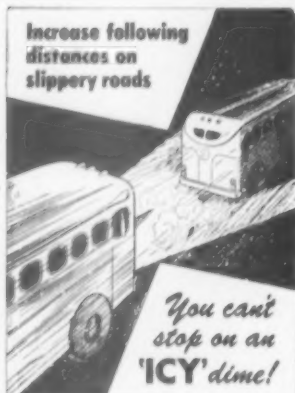
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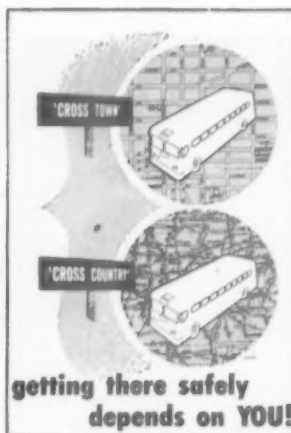
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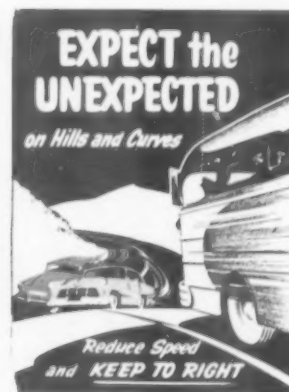
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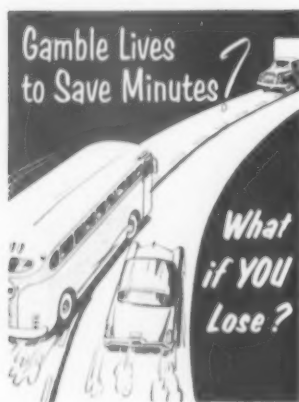
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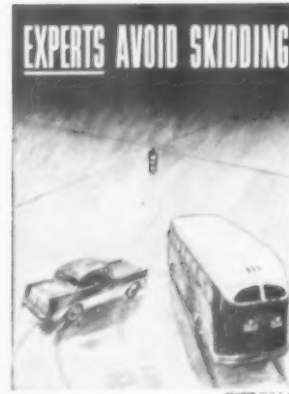
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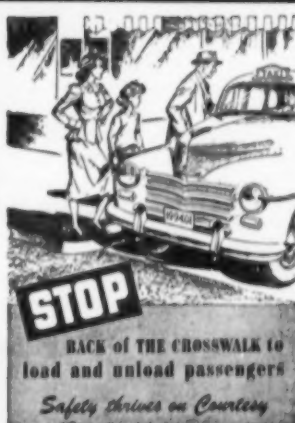
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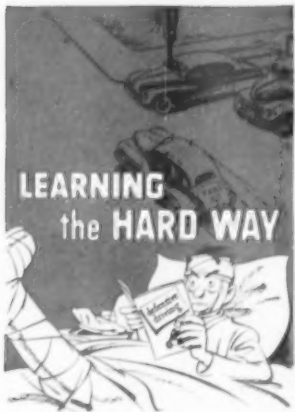
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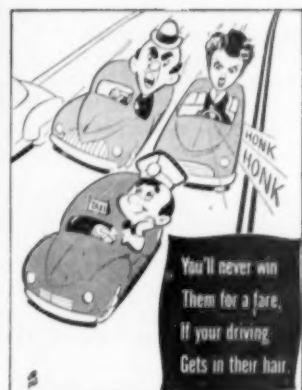
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INDEX

Poster numbers are in regular type face, e.g., 7425-A. Page numbers are in **BOLD** Face, e.g., 25:31. A page reference only indicates that several posters on a subject are shown.

Acids **D-46**; **D-28** 7940-A.

Aeronautics **D-55**; **D-15** 7425-A, 8099-A; **D-43** 0339-A, 0530-A; **D-48** 0313-A.

Aisles **D-19** 0397-A, 1022-A; **D-27** 1222-A; **D-41** 7777-A.

Aprons **D-29** 8695-A.

Artificial respiration **D-45** 9593-B, 9596-B.

Awards—Driver **D-40** V-0408-A, V-9983-A; **D-63** V-1154-A.

Axes **D-60** 0857-A, 9557-A.

Belts—Safety **D-51**.

Block and tackle **D-30** 9213-A; **D-47** 9860-A; **D-56** 0901-A.

Bottles **D-45** 8483-A; **D-46** 7870-A, 8638-A.

Brakes **D-62** V-0488-A.

Brushes **D-60** 0961-A, 9813-A.

Buses—City **D-66-67**.

Buses—Intercity **D-68**.

Carbon monoxide **D-46** 0300-A.

Cement and quarry **D-17**; **D-47** 8855-A; **D-51** 0637-A; **D-56** 0393-A, 0723-A.

Chairs **D-16** 0712-A.

Chemicals and gases **D-45-46**.

See also: **D-28** 7940-A; **D-50** 0745-A.

Christmas **D-32**; **D-62** V-1226-B; **D-65** V-0613-B.

Civil Defense **D-41** 0474-A.

Cleanliness **D-45**.

Clothing and personal protective equipment **D-47-51**.

Clothing—Loose **D-49**.

Compressed air **D-13** 0167-A 8836-A.

Construction industry **D-17**; **D-56**; **D-9** 8442-A; **D-18** 0436-A, 0452-B; **D-23** 8665-B; **D-25** 0377-A; **D-29** 7877-A; **D-31** 8759-A, 8979-A.

Conveyors **D-17** 0549-A, 0677-B; **D-52** 8967-A. Corners **D-30**; **D-27** 0956-A.

Cranes and hoists **D-30-31**; **D-56**; **D-17** 8548-A; **D-18** 0348-A, 0436-A; **D-21** 0083-A.

Cylinders—Compressed gas **D-26** 0396-A, 9585-A; **D-46** 7376-A, 9097-A.

Dock plates **D-18** 0042-A.

Doors **D-12** 0674-A, 1205-A; **D-38** 1216-A.

Electricity **D-21**.

Elevators **D-54** 1093-A.

Eye protection **D-47-48**; **D-40** 8457-A, 8469-A; **D-44** 0619-A.

Face shields **D-21** 9366-A.

Falling objects **D-31** 8759-A, 8881-A.

Falls **D-14-18**.

See also: **D-20**; **D-37**; **D-7** 1021-B; **D-19** 1022-A; **D-38** 1221-A, 1224-A; **D-51** 0749-A.

Fans **D-53** 0426-B.

Fertilizer industry **D-28** 8550-A.

Fire and explosion **D-41-43**.

See also: **D-38**; **D-20** 8837-A; **D-21** 0533-A.

First aid **D-44**; **D-36** 0123-A.

First aid and health **D-44-45**.

Flammable liquids **D-42-43**.

Flares **D-64** V-8693-A.

Floors **D-20**; **D-19** 0397-A, 1022-A.

Food industry **D-26**; **D-13** 8487-A; **D-18** 8573-A; **D-25** 8473-A; **D-28** 8550-A; **D-51** 9003-A; **D-52** 0764-A, 8967-A; **D-54** 0657-A; **D-59** 1112-A.

Foot protection **D-24**; **D-51**; **D-26** 9218-A, 9585-A; **D-27** 8884-A, 1046-B.

Foundries **D-50** 8767-A.

Four-color posters **D-33-40**.

Fourth of July **D-31** 7768-A.

Fuse puller **D-21** 9422-A.

Gases **D-46**.

General appeal **D-5-10**.

See also: **D-33-37**.

Glass **D-28**.

Gloves **D-29** 8695-A; **D-50** 0978-B, 8013-A.

Goggles **D-47-48**; **D-40** 8457-A.

Green cross **D-39** 8754-A.

Grinding wheels **D-48** 0647-A, 0922-B.

Grounding **D-59** 0336-A, 1176-A.

Guards **D-52-53**.

Guns **D-13** 0425-A.

Hammers **D-58**.

Hand protection **D-24**; **D-27**; **D-50**; **D-52**; **D-57**; **D-40** 9695-A; **D-45** 8701-A.

Handling material, see Materials Handling

Hats **D-47**; **D-49**; **D-13** 8310-A.

Head protection **D-47-49**; **D-13** 8310-A.

Health **D-44**; **D-45** 0097-A, 9658; **D-62** V-0639-A.

Heat **D-44**.

Hoists—see Cranes and hoists.

Holidays—see Seasonal and holiday.

Home safety **D-12** 9852-A; **D-35** 8886-A; **D-39** 1015-A, 9436-A; **D-42** 0794-B.

Hooks **D-30** 8646-A, 9213-A.

Horseplay **D-11** 0168-A, 0547-A; **D-13** 0167-A.

Hose **D-13** 0768-A; **D-18** 7555-A, 8573-A.

Hotels **D-20**; **D-28**; **D-12** 0674-A; **D-13** 0770-A; **D-15** 0632-A; **D-16** 0772-A; **D-23** 0763-A; **D-27** 0947-A; **D-59** 0655-A.

Housekeeping **D-19-20**.

See also: **D-37**; **D-41**.

Hunting **D-5** 0576-A.

Inspection **D-30** 0991-B; **D-47** 0844-A; **D-59** 8100-A.

Jewelry **D-50**.

Kites **D-21** 9548-A.

Knives **D-59**.

Labor Day **D-39** 1101-A.

Ladders **D-15**; **D-7** 1021-B; **D-9** 0796-A; **D-29** 8793-A.

Life lines—see Belts—Safety.

Lifting **D-22-24**; **D-9** 0996-A.

Linemen **D-21** 0573-A.

Lock-out devices **D-21** 0819-A; **D-54** 0329-B.

Logging industry **D-29**; **D-49**; **D-60**; **D-13** 8310-A, 9462-A.

Machinery **D-52-57**.

See also: **D-49**; **D-50**; **D-43** 9770-A; **D-48** 0943-A; **D-60** 9813-A.

Manholes **D-46** 0595-A, 8813-A.

Manlifts **D-17** 8356-A.

Marine industry **D-13** 9272-A; **D-14** 7531-A, 8128-A; **D-17** 8050-A; **D-18** 0687-A, 8228-A; **D-29** 0282-A, 0390-A.

Matches **D-38** 0646-A.

Materials handling (Manual) **D-22-29**.

See also: **D-36** 0353-A.

Materials handling (Mechanical) **D-30-31**.

See also: **D-17** 0549-A, 0677-B; **D-55** 8076-A.

Meat packing industry **D-25** 8204-A; **D-27** 7723-A, 8636-A; **D-50** 8013-A; **D-59** 9396-A.

Metals industry **D-13** 8355-B; **D-30** 8646-A, 9458-A; **D-31** 0649-A, 9471-A; **D-46** 8242-B; **D-47** 9698-A.

Meter reader **D-14** 9281-A.

Mining industry **D-28**; **D-13** 8814-A; **D-15** 1165-A; **D-18** 0721-A, 1144-A; **D-51** 0637-A; **D-54** 0722-A; **D-60** 9416-A, 9417-A.

Miscellaneous **D-11-13**.

Motor transportation **D-61-69**.

See also: **D-12**; **D-40** V-0849-A, V-8652-A.

Nails **D-13** 0011-A.

New Year **D-32**.

Off-the-job safety **D-31**; **D-35**; **D-39**; **D-12** 0662-A, 9852-A; **D-42** 0794-B.

Office safety **D-16**; **D-38**; **D-12** 0575-A; **D-19** 0397-A.

Petroleum industry **D-43**; **D-15** 8217-A; **D-17** 8849-A; **D-19** 0302-A; **D-26** 0396-A; **D-28** 9517-A; **D-29** 8793-A; **D-56** 0332-A.

Pickaroons **D-60** 7463-A.

Piling material **D-25**; **D-30** 9518-A.

Poisonous plants **D-45** 8690-A.

Pressure points **D-44** 0492-B.

Printing and publishing **D-57**; **D-19** 0019-A; **D-49** 8762-A.

Public utilities **D-14** 9281-A; **D-18** 0348-A; **D-21** 0573-A; **D-46** 8813-A; **D-47** 0844-A, 9860-A; **D-56** 0901-A, 9406-A.

Pulp and paper industry **D-22** 7499-A; **D-26** 8956-A; **D-27** 8820-A; **D-29** 8545-A.

Quarries, see Cement and Quarry

Railings **D-14**; **D-18** 0687-A.

Railroads **D-55**; **D-6** 0312-B, 9705-B; **D-13** 8355-B; **D-15** 8434-A; **D-26** 9204-B.

Refueling **D-43**.

Reporting unsafe conditions **D-12**; **D-21** 9548-A; **D-36** 0018-A.

Restaurants **D-20**; **D-28**; **D-12** 0674-A; **D-13** 0770-A; **D-15** 0632-A; **D-59** 0655-A.

Rubber industry **D-27**; **D-57**; **D-15** 1043-A; **D-29** 8658-A; **D-30** 9213-A; **D-56** 8946-A; **D-60** 8425-A.

Rules **D-6** 0667-A; **D-11** 1111-A, 8977-A; **D-33** 0708-A; **D-36** 0018-A.

Running **D-12** 0674-A; **D-16** 0973-B, 7879-A; **D-17** 8323-A.

Sacks **D-28** 8550-A.

Salt **D-44** 0229-A, 1037-A.

Saws—Chain **D-60** 0855-A.

Saws—Circular **D-53**; **D-54** 8749-A.

Score sheets **D-11** 0080-A, 1155-A.

Seasonal and holiday **D-31-32**.

See also: **D-33**; **D-39**; **D-62**; **D-55** 1172-B; **D-64** V-8929-B; **D-65** V-0613-B; **D-68** V-0050-A.

Shoes **D-51**; **D-40** 0283-A.

Shoring **D-29** 0282-A, 7877-A.

Showers **D-45** 0493-A.

Signs and signals—Industrial **D-11** 0098-A, 0740-A.

Signs and signals—Traffic **D-40** V-9799-A; **D-62** V-1150-A; **D-63** V-1089-A; **D-64** V-0162-A; **D-65** V-0486-B; **D-67** V-9330-A; **D-68** V-8363-B; **D-69** V-1150-A.

Smoking **D-42**; **D-11** 0098-A, 0740-A; **D-38** 0646-A, 0814-A; **D-41** 0794-B; **D-43** 0530-A.

Soldering **D-60** 7736-A.

Stairways **D-14**; **D-16** 0973-B; **D-38** 1221-A.

Static electricity **D-43** 0270-A.

Stopping distances **D-61** V-1158-B.

Stores **D-16**; **D-12** 0949-A; **D-15** 0747-A; **D-25** 0908-A, 0948-A; **D-27** 0956-A; **D-59** 1112-A.

Suggestions **D-11**.

Switches—Electric **D-52** 0880-A; **D-54** 0400-A, 9087-A.

Tanks **D-43**; **D-29** 8793-A.

Taxicabs **D-69**.

Textile industry **D-19** 9235-A; **D-22** 7987-A; **D-27** 8937-A; **D-41** 7777-A; **D-59** 8819-A.

Thanksgiving **D-32**.

Tools—Hand **D-58-60**.

See also: **D-38** 1023-A; **D-49** 0518-A, 1029-B.

Tools—Power **D-48** 0313-A; **D-58** 0666-A, 8913-A; **D-59** 0336-A, 1176-A; **D-60** 0855-A.

Torches **D-60** 0979-A.

Traffic—Street, see Motor transportation.

Trucks—Industrial—Hand **D-27**.

Trucks — Industrial — Power **D-30**; **D-55** 8076-A.

Trucks—Motor vehicle **D-61-66**; **D-56**; **D-17** 8323-A, 9806-A; **D-18** 0436-A.

Trucks—Motor vehicle—City **D-63**.

Trucks—Motor vehicle—Intercity **D-64-65**.

Trucks—Motor vehicle—Sales **D-65-66**; **D-13** 8487-A; **D-17** 0945-A, 0951-A.

Vacations **D-31**; **D-39**; **D-32** 0975-B.

Water safety **D-35**; **D-32** 0975-B.

Welding **D-21** 9366-A; **D-47** 0403-A, 7203-A.

Women in industry **D-14** 0630-A; **D-49** 7581-A; **D-50** 7623-A; **D-51** 0749-A.

Woodworking plants **D-53**; **D-29** 8695-A; **D-47** 7538-A; **D-54** 8219-A, 8749-A; **D-55** 8076-A; **D-60** 7463-A.

Wrenches **D-58**.

POSTER NUMERICAL LISTING

| POSTER PAGE-D | POSTER PAGE-D | POSTER PAGE-D | POSTER PAGE-D | POSTER PAGE-D | POSTER PAGE-D | POSTER PAGE-D | POSTER PAGE-D | POSTER PAGE-D |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 0009-A 10 | 0348-A 18 | 0625-A 58 | 0797-A 14 | 0994-B 10 | V-1151-A 66 | 8124-B 58 | 8763-A 43 | 9396-A 59 |
| 0010-A 55 | 0352-A 7 | 0628-A 41 | 0798-A 49 | 0995-B 25 | 1153-A 53 | 8128-A 14 | 8767-A 50 | 9399-A 48 |
| 0011-A 13 | 0353-A 36 | V-0629-B 67 | 0799-A 19 | 0996-A 9 | V-1154-A 65 | V-8161-B 67 | 8785-A 25 | 9405-A 20 |
| 0018-A 36 | 0373-A 35 | 0630-A 14 | 0807-B 48 | 0997-A 24 | 1155-A 11 | 8166-A 53 | 8789-A 35 | 9406-A 56 |
| 0019-A 19 | 0377-A 25 | 0632-A 15 | 0811-A 33 | 1000-A 26 | 1156-B 10 | 8172-A 55 | 8790-A 38 | 9416-A 60 |
| 0021-A 52 | 0378-A 12 | 0637-A 51 | 0812-B 47 | 1001-A 45 | V-1157-A 61 | 8204-A 25 | 8793-A 29 | 9417-A 60 |
| 0039-A 8 | 0380-A 48 | 0638-A 48 | 0813-B 6 | 1002-A 24 | V-1158-B 61 | 8217-A 15 | 8794-A 24 | 9419-A 28 |
| 0041-A 48 | 0382-A 46 | V-0639-A 62 | 0814-A 38 | 1003-B 20 | 1159-A 32 | 8219-A 54 | V-8800-B 67 | 9420-A 57 |
| 0042-A 18 | 0384-A 8 | 0642-A 37 | 0815-A 37 | 1004-B 42 | 1160-B 50 | 8228-A 18 | 8809-A 44 | 9422-A 21 |
| 0043-B 5 | 0385-A 37 | 0643-A 20 | 0816-A 53 | 1005-B 59 | 1161-A 24 | V-8236-B 68 | 8813-A 46 | 9436-A 39 |
| 0046-A 32 | 0390-A 29 | 0645-A 12 | 0817-A 16 | V-1006-A 64 | 1163-A 25 | 8240-A 57 | 8814-A 13 | 9443-A 22 |
| V-0050-A 68 | 0393-A 56 | 0646-A 38 | 0818-A 6 | 1007-B 30 | 1164-B 55 | 8242-B 46 | 8816-A 47 | 9458-A 30 |
| V-0059-A 66 | 0396-A 26 | 0647-A 48 | 0819-A 21 | V-1008-A 69 | 1165-A 15 | 8257-A 46 | 8819-A 59 | 9462-A 13 |
| 0063-B 7 | 0397-A 19 | 0648-A 12 | V-0822-B 65 | V-1009-A 66 | 1167-B 7 | 8258-A 57 | 8820-A 27 | 9471-A 31 |
| 0068-A 47 | 0399-A 52 | 0649-A 31 | 0828-B 16 | 1014-A 43 | 1172-B 55 | V-8273-B 66 | 8826-A 13 | 9472-A 36 |
| 0073-A 6 | 0400-A 54 | 0655-A 59 | 0830-A 15 | 1015-A 39 | 1173-A 42 | 8274-A 11 | 8837-A 20 | V-9490-A 63 |
| 0080-A 11 | 0403-A 47 | 0657-A 54 | 0831-B 14 | 1016-A 9 | 1175-A 18 | 8299-A 34 | V-8838-A 58 | V-9492-B 67 |
| 0081-A 34 | V-0406-A 65 | 0658-A 7 | 0832-B 41 | 1017-A 50 | 1176-A 59 | 8310-A 13 | V-8842-B 64 | 9497-A 37 |
| 0083-A 21 | V-0408-A 40 | 0661-A 10 | 0833-B 10 | 1018-A 24 | T-1184-B 12 | 8323-A 17 | 8849-A 17 | V-9509-A 12 |
| 0085-A 42 | 0422-A 41 | 0662-A 12 | 0841-B 51 | 1019-B 25 | 1188-B 32 | 8324-A 52 | 8855-A 47 | V-9513-B 63 |
| 0089-A 25 | 0425-A 13 | 0663-A 28 | 0842-A 29 | 1020-A 59 | 1189-A 32 | 8355-B 13 | 8856-A 57 | V-9517-B 28 |
| 0096-B 5 | 0426-B 53 | 0666-A 58 | 0843-B 32 | 1021-B 7 | 1190-A 56 | 8356-A 17 | 8877-A 14 | V-9518-A 30 |
| 0097-A 45 | 0434-A 18 | 0667-A 6 | 0844-A 47 | 1022-A 19 | 1192-A 31 | 8360-A 35 | 8880-A 23 | V-9522-A 51 |
| 0098-A 11 | 0436-A 18 | 0668-A 8 | 0847-B 5 | 1023-A 38 | T-1194-C 12 | V-8362-B 69 | 8881-A 31 | V-9523-B 19 |
| 0105-B 22 | 0439-A 28 | 0669-B 41 | 0848-A 23 | 1024-A 21 | T-1195-A 12 | V-8363-B 68 | 8884-A 27 | V-9526-B 31 |
| V-0108-A 65 | V-0441-B 61 | 0670-A 52 | V-0849-A 40 | 1026-A 39 | V-1198-A 69 | V-8387-B 69 | 8886-A 35 | V-9531-B 14 |
| 0122-A 41 | V-0448-B 65 | 0674-A 12 | 0850-B 6 | 1029-B 49 | V-1199-A 68 | 8414-B 42 | V-8894-A 61 | V-9536-A 63 |
| 0123-A 36 | 0452-B 18 | 0676-B 30 | 0852-B 10 | V-1030-B 65 | V-1200-A 67 | 8418-A 50 | V-8900-B 64 | V-9539-A 21 |
| 0124-B 44 | V-0464-A 67 | 0677-B 17 | 0853-B 30 | 1035-A 52 | V-1201-B 62 | 8425-A 60 | 8913-A 58 | V-9548-A 21 |
| 0126-A 28 | V-0465-A 68 | 0678-A 19 | 0855-A 60 | 1036-A 31 | V-1202-B 66 | 8426-A 53 | 8919-A 43 | V-9550-B 55 |
| V-0129-A 62 | 0474-A 41 | 0683-A 35 | 0857-B 60 | 1037-A 44 | 1203-A 37 | 8428-B 44 | V-8929-B 64 | V-9551-B 68 |
| 0139-A 22 | 0476-A 24 | 0684-B 19 | 0858-B 32 | 1038-A 47 | 1205-A 12 | 8434-A 15 | 8937-A 27 | V-9552-B 63 |
| 0143-A 53 | 0478-A 41 | 0685-A 56 | 0859-B 25 | 1039-A 52 | 1208-A 31 | 8442-A 9 | 8946-A 56 | V-9557-A 60 |
| 0144-B 6 | 0480-A 23 | 0686-B 52 | 0860-A 21 | 1041-B 8 | T-1209-C 12 | 8446-A 44 | 8956-A 26 | V-9568-A 45 |
| 0145-A 54 | 0483-A 49 | 0687-A 18 | 0879-A 9 | 1042-B 54 | 1210-A 12 | 8457-A 40 | 8959-A 26 | V-9569-A 35 |
| 0146-A 36 | 0484-A 14 | 0688-A 8 | 0880-A 52 | 1043-A 15 | 1213-A 38 | 8464-A 28 | 8966-A 20 | V-9573-B 6 |
| V-0151-B 62 | V-0486-B 65 | 0691-B 55 | 0881-A 23 | 1044-B 23 | 1216-A 38 | 8467-A 42 | 8967-A 52 | V-9575-B 26 |
| V-0153-A 65 | V-0487-B 61 | 0694-A 20 | 0882-A 44 | 1045-B 8 | 1218-A 44 | 8469-A 40 | 8976-A 34 | V-9585-A 43 |
| V-0154-A 66 | V-0488-A 62 | 0695-A 58 | 0883-A 54 | 1046-B 27 | 1221-A 38 | 8473-A 25 | 8977-A 11 | V-9591-A 26 |
| 0157-A 20 | V-0489-B 68 | 0703-A 52 | 0884-A 58 | 1048-A 39 | 1222-A 27 | 8474-A 10 | 8979-A 31 | V-9593-B 45 |
| 0158-B 55 | 0491-A 51 | 0705-A 28 | 0895-B 9 | V-1049-A 65 | 1224-A 38 | 8475-A 5 | 8995-A 37 | V-9594-B 45 |
| V-0160-A 66 | 0492-B 44 | 0706-A 9 | 0900-A 56 | V-1050-A 69 | 1225-A 61 | 8483-A 45 | V-9000-B 63 | V-9596-B 45 |
| V-0162-A 64 | 0493-A 45 | 0708-A 33 | 0901-A 56 | V-1052-B 61 | V-1225-A 61 | 8487-A 13 | 9003-A 51 | V-9603-A 34 |
| 0163-A 49 | 0497-A 21 | 0709-B 44 | 0903-B 7 | 1057-A 33 | V-1226-B 62 | 8491-A 11 | 9011-A 57 | V-9633-A 55 |
| 0166-B 19 | 0499-A 28 | 0710-A 52 | 0904-A 7 | 1058-A 9 | V-1227-B 66 | V-8499-B 69 | 9012-A 57 | V-9654-A 53 |
| 0167-A 13 | 0518-A 49 | 0712-A 16 | 0905-B 51 | 1059-A 37 | 6241-A 29 | V-8522-B 67 | 9019-A 23 | V-9655-A 19 |
| 0168-A 11 | 0519-A 24 | 0714-A 39 | 0907-A 5 | 1060-A 14 | 7203-A 47 | 8545-A 29 | 9024-A 8 | V-9658-A 45 |
| 0170-A 16 | V-0522-A 68 | 0716-A 9 | 0908-A 25 | 1061-A 10 | V-7282-B 62 | 8548-A 17 | 9035-B 58 | V-9666-A 67 |
| 0173-A 15 | 0526-A 10 | 0717-A 22 | 0909-B 24 | 1062-B 53 | 7376-A 46 | 8550-A 28 | 9040-B 58 | V-9695-A 40 |
| 0209-A 30 | 0530-A 43 | 0718-A 16 | 0922-B 48 | 1063-B 11 | 7425-A 15 | V-8566-B 68 | V-9065-A 61 | V-9698-A 47 |
| 0211-A 10 | 0533-A 21 | 0720-A 42 | 0930-B 5 | 1065-A 7 | 7463-A 60 | 8573-A 18 | 9070-A 36 | V-9705-B 6 |
| 0216-B 48 | 0545-A 50 | 0721-A 18 | 0939-B 7 | 1066-A 8 | 7467-A 50 | 8578-A 32 | 9083-A 20 | V-9706-A 30 |
| 0219-A 33 | 0546-B 23 | 0722-A 54 | 0940-A 8 | 1068-A 57 | 7499-A 22 | 8586-A 24 | 9087-A 54 | V-9711-A 32 |
| 0220-A 37 | 0547-A 11 | 0723-A 56 | 0941-B 48 | 1069-A 57 | 7531-A 14 | 8605-B 68 | 9088-A 43 | V-9715-B 7 |
| 0228-A 34 | 0548-A 59 | 0727-A 20 | 0943-A 48 | V-1070-A 63 | 7535-B 49 | 8612-A 34 | 9097-A 46 | V-9744-A 26 |
| 0229-A 44 | 0549-A 17 | 0740-A 11 | 0944-B 49 | V-1071-A 62 | 7536-A 29 | V-8622-A 64 | 9138-A 57 | V-9745-A 6 |
| 0230-A 26 | 0554-A 51 | 0741-A 16 | 0945-A 17 | V-1072-B 64 | 7538-A 47 | 8625-A 27 | 9168-A 53 | V-9764-A 64 |
| 0232-A 57 | V-0556-A 62 | 0742-A 36 | 0947-A 27 | 1080-A 44 | 7555-A 18 | 8630-A 36 | 9204-B 26 | V-9770-A 43 |
| 0236-A 29 | 0562-A 56 | 0743-A 16 | 0948-A 25 | 1086-B 55 | 7581-A 49 | 8633-A 42 | 9208-A 31 | V-9776-A 49 |
| 0242-A 42 | 0567-A 10 | 0745-A 50 | 0950-B 12 | V-1087-B 64 | 7596-A 56 | 8636-A 27 | 9209-A 48 | V-9783-A 34 |
| 0248-A 42 | 0568-A 30 | 0747-A 15 | 0951-A 17 | V-1088-A 61 | 7623-A 50 | 8638-A 46 | 9213-A 30 | V-9786-A 42 |
| 0250-A 37 | 0571-A 23 | 0748-B 24 | 0952-A 20 | V-1089-A 63 | 7723-A 27 | 8646-A 30 | 9218-A 26 | V-9787-A 43 |
| V-0258-B 67 | 0573-A 21 | 0749-A 51 | 0953-B 8 | 1093-A 54 | 7736-A 60 | V-8652-A 40 | 9219-A 26 | V-9799-A 40 |
| 0263-A 15 | 0575-A 12 | 0750-B 53 | 0956-A 27 | V-1096-A 69 | 7750-A 57 | 8658-B 29 | 9232-A 22 | V-9806-A 17 |
| 0269-A 58 | 0576-A 5 | 0751-A 33 | 0957-A 41 | 1098-B 32 | 7768-A 31 | 8660-A 24 | 9235-A 19 | V-9808-A 28 |
| 0270-A 43 | V-0578-A 65 | V-0755-B 63 | 0959-A 10 | 1099-A 32 | 7776-A 43 | 8665-B 23 | V-9260-B 66 | V-9813-A 60 |
| 0278-A 28 | 0588-B 14 | 0763-A 23 | 0960-A 39 | 1101-A 39 | 7777-A 41 | 8666-B 57 | 9268-A 35 | V-9823-A 53 |
| 0282-A 29 | 0589-A 32 | 0764-A 52 | 0961-A 60 | 1103-A 34 | 7870-A 46 | 8667-A 45 | 9272-A 13 | V-9832-A 19 |
| 0283-A 40 | 0593-A 54 | 0765-B 47 | 0962-A 41 | 1104-B 5 | 7877-A 29 | 8668-B 58 | 9275-A 9 | V-9840-A 15 |
| V-0290-B 69 | 0594-A 11 | 0766-A 51 | 0964-A 16 | 1107-B 6 | 7879-A 16 | 8673-B 55 | 9276-A 23 | V-9842-A 5 |
| 0293-A 35 | 0595-A 46 | 0768-A 13 | V-0965-A 68 | 1108-A 5 | V-7908-B 64 | 8690-A 45 | 9280-A 43 | V-9852-A 12 |
| 0300-A 46 | 0596-A 49 | 0770-A 13 | V-0967-A 69 | 1110-A 25 | 7921-A 30 | V-8692-B 61 | 9281-A 14 | V-9860-A 47 |
| 0302-A 19 | 0598-A 38 | 0772-A 16 | 0973-B 16 | 1111-A 11 | 7935-A 29 | V-8693-A 64 | 9286-A 35 | V-9870-A 33 |
| 0309-A 50 | 0599-A 23 | 0776-A 59 | 0974-A 51 | 1112-A 59 | 7940-A 28 | 8695-A 29 | 9304-A 51 | V-9886-A 58 |
| 0312-B 6 | V-0602-B 61 | 0778-A 6 | 0975-B 32 | 1115-B 27 | 7987-A 22 | 8699-A 8 | 9327-A 31 | V-9890-A 9 |
| 0313-A 48 | V-0603-A 62 | 0780-A 33 | 0976-B 5 | V-1139-B 65 | V-8010-B 62 | 8701-A 45 | V-9330-A 67 | V-9902-A 36 |
| 0323-A 39 | 0605-A 60 | V-0786-A 63 | 0978-B 50 | V-1140-B 61 | 8013-A 50 | 8730-B 41 | 9339-A 33 | V-9912-A 63 |
| 0329-B 54 | 0608-A 20 | V-0789-B 69 | 0979-A 60 | 1143-B 17 | 8050-A 17 | V-8734-A 66 | 9347-A 14 | V-9923-B 22 |
| 0332-A 56 | V-0612-A 68 | 0790-A 30 | 0980-B 26 | 1144-A 18 | 8070-A 27 | V-8736-B 69 | 9366-A 21 | V-9924-A 50 |
| V-0333-B 66 | V-0613-B 65 | 0792-B 17 | 0982-A 22 | 1145-A 49 | 8076-A 55 | 8749-A 54 | 9367-A 34 | V-9969-A 8 |
| V-0334-A 62 | 0617-A 14 | 0793-A 5 | 0983-A 42 | V-1147-A 67 | 8094-A 53 | 8754-A 39 | 9372-A 33 | V-9972-A 22 |
| 0336-A 59 | 0619-A 44 | 0794-B 41 | V-0985-B 65 | V-1148-A 67 | 8099-A 15 | V-8757-B 63 | 9380-A 22 | V-9976-A 56 |
| 0339-A 43 | 0622-A 53 | 0795-A 9 | 0991-B 30 | V-1149-A 64 | 8100-A 59 | 8759-A 31 | 9383-B 22 | V-9980-A 24 |
| 0341-A 46 | 0624-A 26 | 0796-A 9 | 0993-A 21 | V-1150-A 69 | 8114-A 46 | 8762-A 49 | V-9391-B 66 | V-9983-A 40 |
| | | | | | | | 9394-A 7 | W.C. 22 42 |

POSTER PROGRAM AIDS

SPECIAL SERIES POSTERS

Developed to meet the needs of certain industries for special situations, these posters show specific hazards and equipment. Each series consists of 12 different posters and is sold in sets only. These posters should be used in conjunction with regular posters to obtain a balanced coverage of both specific hazards and fundamental safe practices common to all industries. Miniature reproductions of any set and prices will be sent on request. Sets currently available for: Construction, Logging (English or French), Marine, Fertilizer, Mining, Printing & Publishing, and Public Utility (Gas Industry).

PUBLIC SAFETY POSTERS

Though not illustrated in this Directory, there are a number of Traffic, Farm, School, and Home posters available. These posters can be particularly helpful in the off-the-job phase of your safety program. Many organizations provide posters of this type to their local schools, women's clubs, and youth groups as a regular part of their community relations program. Write the Membership Department for prices and information.

SCHOOL. Two 8½"x11½", two-color posters are produced each month—one for elementary schools, one for secondary schools. School posters are keyed to the monthly safety lessons published by the School and College Division, but can also be used independently. May be obtained by subscription or individually. Posters purchased on subscription can be imprinted.

TRAFFIC. Traffic posters are illustrated each month in TRAFFIC SAFETY MAGAZINE. Two new posters are released monthly keyed to the Operation Safety theme. The driver poster is available in "C" (25"x38") and "A" (8½"x11½") sizes. The pedestrian poster is available in the "B" size (17"x23"). Available by subscription or individually.

FARM. A list of specific farm safety posters appears in the Catalog of Public Safety Materials.

HOME. The Council's Home Safety Division has prepared a list of posters which is available on request.

POSTER ELECTROS

You may obtain electrotypes of any poster illustrated in one color in this directory or in the poster section of NATIONAL SAFETY NEWS or TRAFFIC SAFETY. Electrotypes of 3 and 4 color posters are not available. Electrotypes are approximately 1¾"x2½", suitable for use in plant publications and leaflets. Order by poster number. Allow two weeks for delivery.

Stock No. Prices:

033.02 1 to 9 electros, \$3.95 each; 10 or more, \$3.65. (Less 10% discount to N.S.C. members.)

POSTER FRAMES

These are black enameled metal frames, made to fit National Safety Council posters. They are especially useful when display boards are not available, or when you wish to spot a single poster at a strategic point. Frames are large enough to accommodate cardboard backing, or a glass or plastic sheet in front of poster.

Stock Nos. Prices:

034.01 "A" size (8½"x11½") 1 to 9 frames, \$1.35 each; 10 to 99, \$1.15; 100 or more, \$1.00
034.02 "B" size (17"x23") 1 to 9 frames, \$1.95 each; 10 to 99, \$1.60; 100 or more, \$1.30.
(Less 10% discount to National Safety Council members.)

PAYROLL ENCLOSURES

Miniature black and white reproductions of safety posters may be ordered for use as inserts in pay envelopes. You select 12 different posters from those shown in one color in this directory or in NATIONAL SAFETY NEWS or TRAFFIC SAFETY. (Do not select miniatures shown in more than one color.)

The enclosures are printed 12 to a sheet and then cut to 1¾"x2½" size. Minimum order of 1200 enclosures (100 sheets) is required. Quantities of each of the miniatures selected must be identical. Order by poster number, and allow approximately four weeks for shipment.

Stock No. Prices:

198.10 First 100 sheets, \$13.25; each 100 additional \$2.25. (Less 10% discount to N.S.C. members.)

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For off-the-ground painting, cleaning, electrical work, window washing and inspection "Trouble Saver" ® Sectional Rolling Scaffolds offer efficient working space and maximum safety. "Trouble Saver" fixed or rolling Scaffolds are easily erected from interchangeable prefabricated 5'-wide frames and crossbraces plus guardrails. Rubber-tired casters have positive lock.

Versatile PS Co. Scaffolding
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Circle Item No. 32—Reader Service Card

Jet Noise

—From page 42

mercial airports it will cause complaints from residents in the nearby area. It will therefore be necessary in most cases to use ground run-up mufflers to which the airplane is attached during these tests. When such run-up mufflers are used to reduce the community noise, they will also

reduce the noise for operating personnel.

Figure 3 shows the noise pattern around a jet engine in the very important band for hearing, 2400=4800 cps. The intake noise is most prominent during idling. The noise of the exhaust of a jet engine appears at higher rpm. and is at maximum at an angle of approximately 45° from the axis of the tail pipe. It is unlikely

that operating personnel will have to operate in this cone. The conditions immediately adjoining the fuselage will be less severe.

When mufflers are used, the noise will be ejected somewhat upwards. The effect of the reduction will not be as great for the airport personnel as it will be for the surrounding community, since almost the same amount of energy will be ejected in all directions around the aircraft. Even with mufflers and protection afforded by the directional pattern, all personnel working around the aircraft must use hearing protection.

Ear muffs give about 30 db. protection in the important high frequencies. Ear plugs can also be used. They are only a little more uncomfortable, but they provide as much as 40 db. protection at the higher frequencies. The combination of helmet, ear muffs, and ear plugs can give as much as 50 db. attenuation in the higher frequencies.

Here would be a good place to mention the fact that the problem of the commercial air lines will be considerably less than that for the military aircraft. None of the commercial aircraft will be using afterburners. The afterburner engine makes about 10 db. more noise than the engine at full rpm. without afterburner.

Personnel also are more likely to be near the intake side of the engine than the exhaust during ground run-up. The severe intense whine in front of the aircraft is another reason for wearing hearing protection. We know of no problem involving the acoustic environment of commercial aircraft during run-up for which the available hearing protection devices are not adequate.

3. Engine Testing

The last acoustical environment involves the testing of engines themselves. For commercial aircraft this will probably be done only at overhaul bases. However, there are large numbers of personnel at such bases. The testing of the engine will require running it at high rpm. for long periods of time. This will in many cases cause a neighborhood noise problem. In most such cases, if the noise is reduced adequately to

INHIBIT DERMATITIS

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clean and germ free"*

WITH EFFICIENT DISPENSERS PORTABLE AND STATIONARY THROUGHOUT YOUR PLANT

Recognized throughout industry as a superior, heavy duty paste-cream antiseptic skin cleanser, VI-LAN fortified with Lan Act 12, is properly dispensed with portable and stationary dispensers conveniently placed on work benches, service trucks, oil rigs, laboratories, store rooms, work carts, lavatories, and in EVERY WASH ROOM. Used WITH OR WITHOUT WATER, Vi-Lan removes greases, oils, paints, tars, acids, asphalt, pipe dope, rubber, etc., inhibits dermatitis, and serves to eliminate lost man hours and expensive compensation claims. It drastically reduces hand-cleaning costs, and removes stubborn soils in less time than conventional soaps and detergents. IT DOES WHAT SOAP CAN NOT DO, and its lanolin content preserves natural skin qualities.

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No. 60-70

No. 50

Circle Item No. 33—Reader Service Card

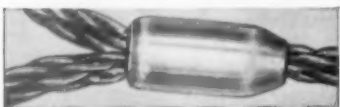
Only 2 Pounds of Tuffy Sling Per Ton of Load

The slings hoisting this hydraulic press are 1 1/4" Tuffy U-1s. For each 2 pounds of their own weight, two Tuffy U-1s of this length (basket hitch) are rated to handle a ton of load. Pound for pound Tuffys are weight lifters extraordinary.

The secret of the amazing strength of all Tuffy Slings is in the special purpose steel we use, and the way its wire fabric is machine-braided to give a combination of toughness and flexibility you won't find in any other machine made sling.



Tuffy Slings are so flexible that kinks can be pounded out easily without sling damage. And it's mighty hard to kink a Tuffy Sling in the first place. Tuffy's resistance to knotting, kinking and looping is just one reason why Tuffy Slings have an enviable record of giving longer service life than ordinary slings. For another reason, look at the Tuffy ferrule...



Tuffy's pressed-on ferrule gives the tucked eye splice 100% of fabric strength. Applied under great pressure, the steel ferrule literally flows into every space between the wires and strands, developing friction force equal to fabric strength. Another reason why you can't match Tuffy for taking deadloads, shocks and impacts!


Your Tuffy Distributor is Stocked to Meet Your Needs

He'll help you save money with the longer trouble-free service life of Tuffy Slings. He's ready with your Tuffy Slings and Union Wire Rope needs. Get in touch with him now!



**FREE—
Get Your Tuffy
Sling Handbook**

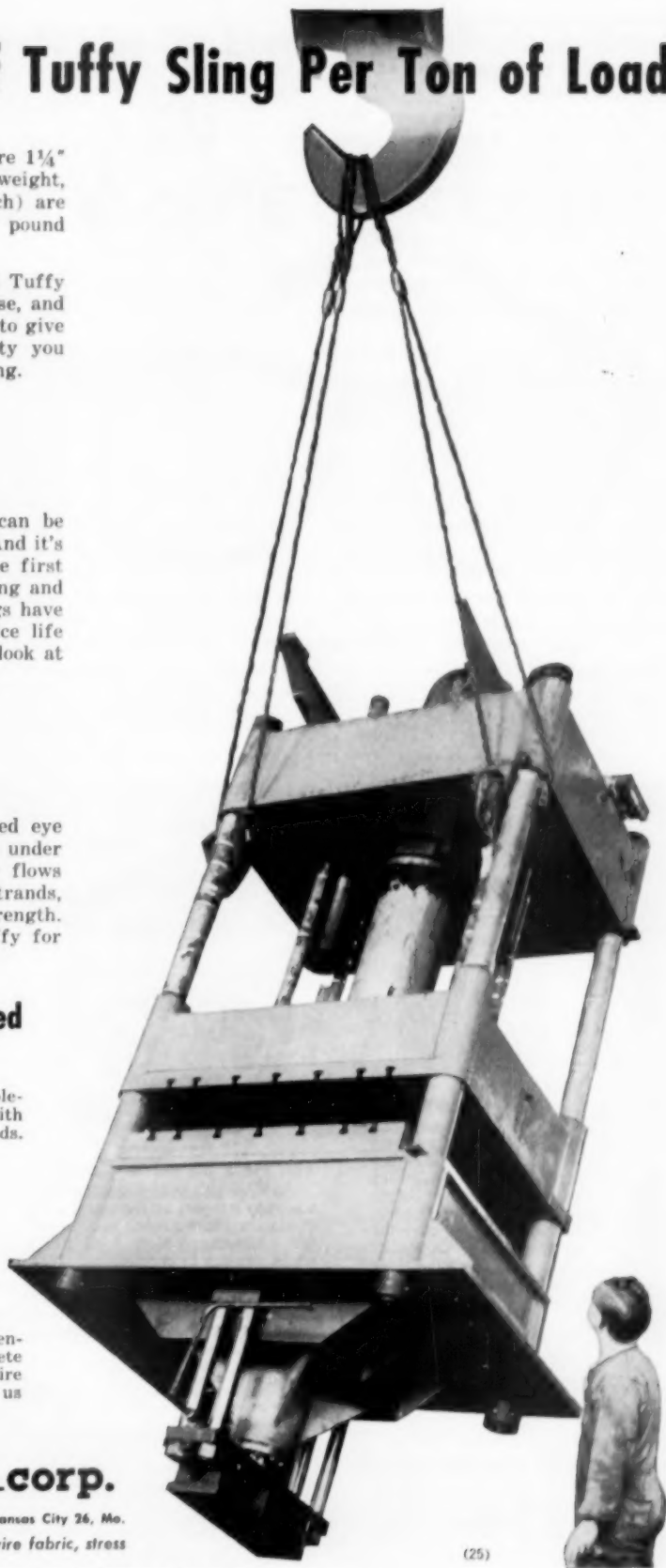
Gives complete data on Tuffy Sling types, dimensions, weights and rated loads. Plus a complete rigger's manual and engineer's notebook on wire rope constructions and specifications. Write us for your copy!

union  **Wire Rope corp.**

2224 Manchester Avenue, Kansas City 26, Mo.

Specialists in high carbon wire, wire rope, braided wire fabric, stress relieved wire and strand

Circle Item No. 34—Reader Service Card



(25)

prevent neighborhood complaints, it will be sufficiently low in intensity for the operations at the overhaul bases.

In a few cases, however, the design of the test cells will have to be such as to prevent excessive noise in the immediate vicinity of the cells. This can be determined only by a survey of the site. The problem at the overhaul base is rather similar but not as severe as that in most jet engine production facilities.

All such companies find it necessary to build test cells with sound attenuations which run from 25 to 60 db. Our firm has had an opportunity to study the noise problems of the overhaul bases of American Air Lines at Tulsa, United Air Lines at San Francisco, and Continental Air Lines at Denver, and has found that at these sites about 40 db. reduction or less was adequate.

Jet engine test cells in use at Ford Aircraft Company in Chicago have reductions of about 60 db. and are designed for consider-



"All right! Which one of you guys has been cutting the crust off his peanut butter sandwiches with my saw?"

ably larger engines than are now being produced. The noise of the jet exhaust is quieted by passing through a labyrinth of 180° turns, the walls of which are lined with acoustical absorbing treatments especially designed to stand up under the high temperatures, velocity, and intense vibrations which exist in this region. Similar labyrinths quiet the air intake

and the air introduced for cooling. The sounds from these cells cannot be heard ¼ mile from the cells.

This structure is the most economical and rugged which has been designed for the large sound attenuations specified. It proves that it is possible to get almost any amount of sound attenuation required with good design. The size requirement for overhaul bases will be much less than that at Ford because there will be no afterburners used and the amount of noise permitted will usually be considerably higher. There will also be at the overhaul bases ground run-up tests which will require similar mufflers as discussed above.

* * *

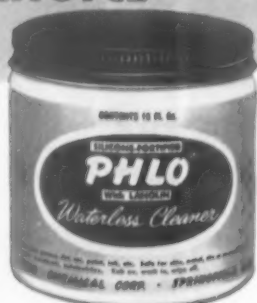
The jet age will bring new problems in regard to the safety and well being of personnel. Not the least of these worries will be concerned with noise. Solutions for these problems are not readily evident because they depend on the whole over-all operation.

INDUSTRY'S CHOICE — Coast to Coast



PRACTI-KREME

... This combination skin protector and cleaner has been used and proved to check dermatitis before it starts — for over 15 years. Applied before work, it provides a flexible, fat-based coating over the skin. When moistened after work, Practi-Kreme cleans completely and quickly.



NEW PHLO WATERLESS CLEANER

... Safe, quick and easy to use, Waterless Phlo removes all industrial soils. Containing both silicone and lanolin for double protection, it is milky white, smooth in consistency. New handy dispenser makes using and refilling a simple matter. Management and workers agree — coast to coast — there's no better cleaner than Phlo Waterless.



PHLO

... is a neutral skin protector rich in lanolin and now fortified with silicones. Magic silicones make Phlo water-repellent, adhesive, non-toxic. Phlo is a most effective barrier against bacteria, irritants and soil. Try it ... then you'll know Phlo should be in your plant now.

Distributorships available in some areas.

Write for free test samples today.

THE CHEMICAL CORPORATION 54 Waltham Avenue, Springfield 9, Massachusetts

USSSCO the Complete Line for Every Eye Protection Need

Industry's Newest, Strongest, Most Popular

THE USSSCO

S-7 SAF-I-SPECTACLE®

PLASTIC FRAMES

in bronze or flesh • 4 Eye Sizes, 5 bridge widths • with integral or adjustable Nose Pads • choice of flat fold or regular Side Shields • spatula or riding bow Temples.

SMART, modern styling that appeals to both men and women. New lightweight wearing comfort.

HIGHER IMPACT LENSES

in USSSCO's new OPTILITE® lens material. Or Hardened Safety Glass, if desired. S-7 lenses are interchangeable — the same lens fits either right or left side.

PLANO OR INDIVIDUAL PRESCRIPTION LENSES

(single vision or multifocals) in either OPTILITE or Hardened Glass.

GREATER STRENGTH in new straight-line frame design, stronger and more rigid bridge and eyewires. Deep molded lens channels lock lenses securely against impacts.

"HALO"® FACE SHIELD

Light weight, all-plastic, with green anti-glare plastic spark protector, and patented hinge.



ALSO MADE BY USSSCO:

"PEP-UP"® SALT TABLETS • SAF-I-CUP GOGGLES FOR WELDERS AND CHIPPER • SAF-HED® PROTECTIVE HATS • "TUFFY"® VINYL APRONS • SAF-CO-METERS® FOR DETECTING CO IN THE AIR • SAF-I-WELD® WELDING LENSES • SAF-I LENS CLEANERS AND GOGGLE CLEANING STATIONS.

All USSSCO Safety Eyewear meet American Standards Association Code for optical qualities, impact and piercing resistance, etc.



ALSO AVAILABLE in new-styled modern metal frames, with choice of metal spatula temples with plastic paddle tips, or cable type • 4 eye sizes, 5 bridge widths.



A Chemical Goggle that Won't Fog
NEW AIRFLOW® SAF-I-CHEM®
Twice the ventilation... patented baffles keep out liquid splashes. Weighs only 3 oz.



Guaranteed Non-Fogging
NEW AIRFLOW® SAF-I-FLEX®
Cover goggle with soft, tough vinyl frame for impact protection, and generous wrap-around nickel-steel screen for maximum ventilation.



For the Careful Buyer
"THRIFTY" SAF-I-FLEX®
Highest quality, lowest cost cover goggle of its type today.



Low-Cost 1-Piece Eye Shield
SAF-I-SHIELD®
The original all-purpose plastic cover goggle—and still the leader!



Light Weight, All-Plastic
SAF-I-SPEC®
Bright, attractive bronze or slate blue frames. New modern styling. Weighs less than 1 oz. Available with side shields.

Pioneers in Modern
Industrial Eye Wear

WRITE FOR COMPLETE CATALOG

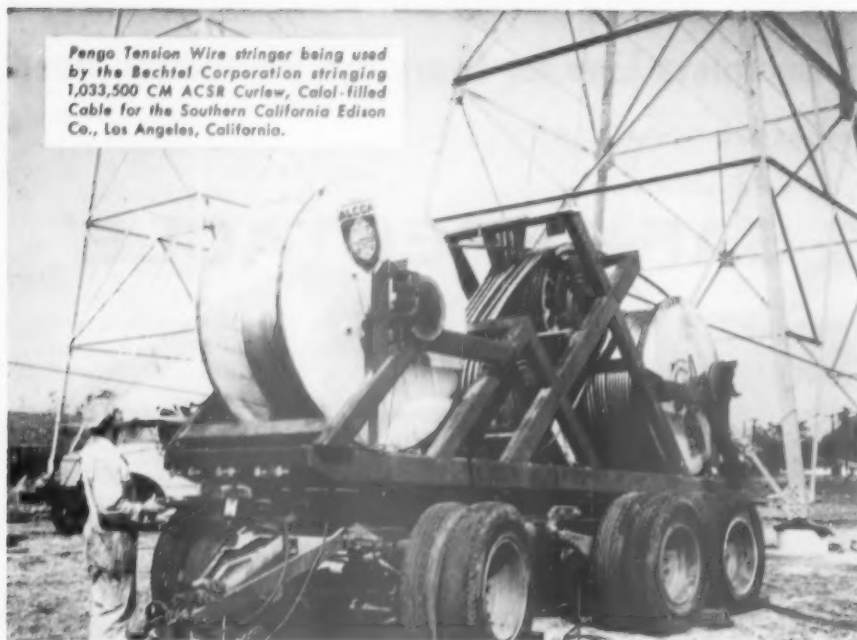
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Circle Item No. 36—Reader Service Card

Pengo Tension Wire stringer being used by the Bechtel Corporation stringing 1,033,500 CM ACSR Curlew, Caloi-filled Cable for the Southern California Edison Co., Los Angeles, California.



The latest method of stringing conductors

- Safest, most economical for transmission, distribution and even secondary lines.
- Its greatest savings are effected when stringing over and through energized circuits . . . by far the safest, tool
- Fourteen patents pending!

Operation of the PENGU Tension Wire Stringer is almost unbelievably smooth. Because the tensioning is done on the Neoprene-Lined Bullwheels rather than on reels, conductor damage from the reels has been eliminated entirely. Due to the Neoprene lining of the Bullwheels, it is possible to use a full range of wire sizes to maximum groove capacity, which, in the case of the Model 6000-WS shown in picture, is Pheasant or 1 1/2" diameter.

SMOOTH, POSITIVE CONTROL OF CONDUCTOR TENSION can be maintained at all times regardless of model or size of PENGU Tension Wire Stringer used. The large, specially designed PENGU disc brakes are mounted away from the Bullwheels to assure dissipation of the heat generated by the continuous braking action and prevent transmission of the heat to the Bullwheels.

In addition to the model shown in the picture, all series are available in low-slung trailer mounts for mountain work with separate easy-loading reel trailers.

List your requirements and send for descriptive literature and prices.

PETERSEN ENGINEERING CO.
Santa Clara, California DEPT. 8

Please send me more information on the new Pengo Tension Wire Stringer.

Name _____

Firm _____

Address _____

City _____

State _____

Made by the makers of the World-Famous
PENGU EARTH AUGERS



PETERSEN

ENGINEERING COMPANY

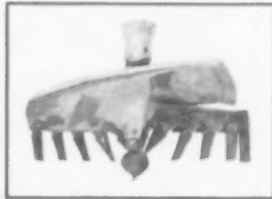
Santa Clara, Calif.

Circle Item No. 37—Reader Service Card

Other PENGU
Products include:



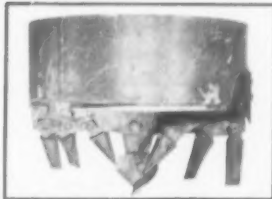
24 inch Heavy Duty Flight Auger



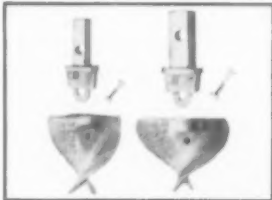
Double-Helix Heavy Duty Auger



Offset Boring Head



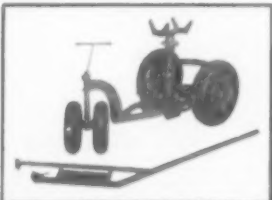
Bucket Auger



Screw Bit for Small Diameter Holes



Pulling Eye



Pole and Transformer Chariot

Corrective Goggles

—From page 33

—The employee can be referred to a panel of refractionists. This is a compromise between the other two alternatives.

Optically precise lenses. Safety lenses should be fabricated from ophthalmic quality glass or plastic which has the same optically desirable qualities as top grade prescription ophthalmic lenses. In addition, of course, safety lenses will be thicker and will have been heat treated.

An optical supply house (or houses) should be selected that can be expected to consistently turn out a quality product which matches the refractionist's prescription.

This is an area where false economy should not be attempted. There are many technical problems in fabricating top quality prescription safety lenses and only the best lenses obtainable will prove satisfactory. A necessary step is the routine inspection of

lenses by the dispenser or refractionist to insure that the lens matches the prescription.

A good fit. To assure well fitting prescription goggles there must be a correlation between frame and face measurements. Either the refractionist or dispensing optician must incorporate into the order the pupillary distance, lens size, bridge size, and temple length.

When dispensing goggles, he must give strict attention to the alignment of optical centers, distance of lenses from eye, fit and comfort of the bridge, nose pads, and temples.

The final step is to return the employee to the refractionist for a final checkup to assure that all necessary requirements have been met. This is desirable for public relations as well as for technical reasons.

Enforcement. An employee can be furnished with the best possible goggle from the standpoint of prescription and safety and it will be useless unless he wears it

at all times when exposed to eye hazards. The very provision of a quality product does much to insure the wearing.

In our experience, the more acceptable goggles are cosmetically (providing all safety and refraction requirements are met), the higher the acceptance rate or wearing rate. Goggle wearing must be enforced.

Who should pay? The cost of the refraction and the goggles can be paid by management, by the employee, or the cost can be divided between them.

If management assumes the entire cost:

1. There can be no resistance toward the program by the employee because of personal expense, either at the time the original goggles are supplied or when replacement becomes necessary because of job transfer or a change in prescription needs.

2. Management can choose the method or plan for refraction—i.e., own refractionist, outside refractionist, or panel.

WORLD FAMOUS AUDIOMETERS by audivox

SUCCESSOR TO *Western Electric* HEARING AID DIVISION

You may save thousands of dollars for your company from deafness claims and needless accidents with an Audivox Audiometer. This sensitive instrument to measure the hearing power of your employees is low in initial cost and low in maintenance cost, it's compact and light, it's simple to operate, and will give years of trouble-free, accurate service.



SEND COUPON FOR FREE FOLDER!

Audivox, Inc., Dept. SJ-1,
123 Worcester St., Boston, Mass.

Gentlemen:

Please send me the free folder with detailed information about Audivox Audiometers.

Name.....

Firm.....

Street.....

City.....Zone.....State.....

Circle Item No. 38—Reader Service Card

3. This practice offers the best assurance that the quality of the goggles and the "eyes for the job" concept can be maintained.

4. Management can insist that goggles remain at work locations if this seems desirable.

If the employee assumes the entire cost:

1. Best possible public relations between management and the optical profession because employees choose own refractionist and own source of supply of goggles.

2. Some companies with this arrangement claim employees take better care of their own personal

If the cost is divided between management and the employee, there will be a compromise in the advantages listed above.

Goggles off the job. There are both advantages and disadvantages to keeping goggles in the plant. If they are paid for by employees, workers should be allowed to use them wherever

they wish. If they are paid for by management, the company can control their use.

Many prescriptions are satisfactory only for the job and are not proper for use away from the work place. In addition, glasses kept in the plant will always be on the job—not left in the other suit, or on the dresser, or lost. Also, there can be no adverse public relations from optical professions who might believe they have lost some business because the company has provided the worker with goggles he can use as personal glasses.

On the other hand, if employees are allowed to wear goggles away from the plant many eyes may be saved. If this practice is followed the employee must be given a note with his goggles stating that his prescription is proper for vision at work only, and is not necessarily correct for use away from his job. He should be instructed to consult his own refractionist before using his goggles away from the job.

Leaving the company. We can see no advantage of keeping an employee's goggles when he is separated from the company, other than the slight value of reclaimed frames. Lenses cannot be used by others. We allow employees to keep prescription goggles when they leave and hope we may occasionally save an eye.

Is a prescription safety goggle program worth while? Emphatically yes! Our plant began such a program in 1925. There were approximately the same number of exposure hours then as now. In 1924 our plant had 522 disabling eye injuries. Since November 1954 we have had none. Last eye lost due to an accident in our plant occurred in March 1952.

Certainly many eye accidents have been prevented by improved job safety engineering. But just as many have been prevented by our prescription safety goggle program.

Used car dealer (driving up a hill): "This is the opportunity of a lifetime."

Customer: "Yes, I can hear it knocking."



DANGER! DANGER! DANGER! DANGER!



SAFE!

CLEAN PARTS
AUTOMOTIVE & INDUSTRIAL
----> **3 WAYS!**

1. Continuous Flow Hose
2. Air Agitated Soaking Tank
3. "Super Power" Jet Air Gun



Kleeerflo SUPER CLEANMASTER MODEL 50



Adapted for Critical Cleaning of Automatic Transmissions and Power Steering Units

A continuous flow pump strains, filters and ejects abrasive foreign material and returns clean Kleeer-Flo Cleaning Fluid through the semi-rigid hose to the upper soaking tank.

Fire hazard is reduced by a quick action fusible link in self-closing cover. Efficient patented electric pump is driven by a fan-cooled brushless, sparkless motor.

SAFE!

Kleeer-Flo Model 30 (less Jet Air Gun) also available

CALL, WIRE, WRITE FOR INFORMATION

America's Foremost Producer of Parts Cleaning Equipment
PRACTICAL MFG. CO.
2840 4TH AVE. S. • MINNEAPOLIS, MINN.

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Efficiency!

I WASN'T CAREFUL

I DIDN'T THINK

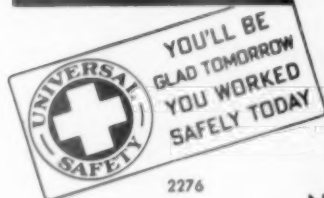
I HADN'T WATCHED



992-US



976-B



2276



Now, more than ever, Safety and Efficiency go hand in hand. Workers in Industry have proved that the safe worker is far more efficient — in higher production and morale.



2277



428-G

Throughout Industry these signs make a powerful contribution to safe working. They educate, impress, safeguard workers on the job. There are hundreds of Stonehouse stock wordings. Special wordings are also produced to customer specifications.



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Our complete Catalog — 64 pages, in full color — free on request.

Stonehouse

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MANUFACTURERS

"Signs Since 1863"



ACCIDENT PREVENTION • steel SIGNS IN STANDARD COLORS AND DESIGNS

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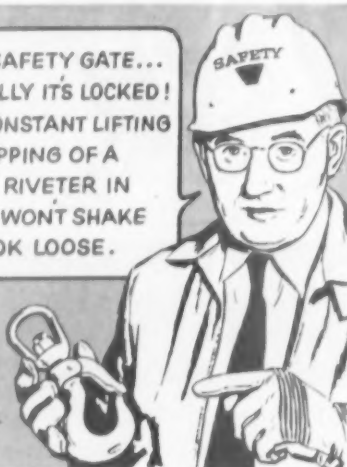
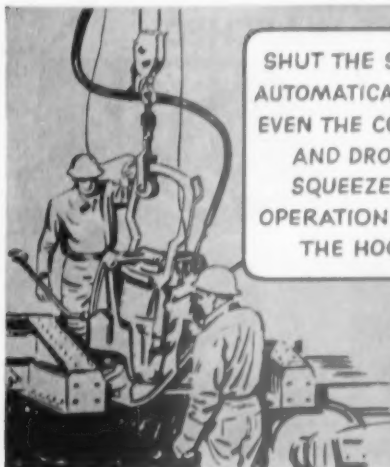
WE LOCKED OUT THIS LIFTING HAZARD!

OUR MEN AND MATERIALS ARE PROTECTED FROM THIS.
WE'VE REPLACED ALL OF OUR OLD STYLE HOOKS WITH
BULLARD SAFETY HOOKS THAT LOCK LOADS IN.



says Safety Engineer, Frank Treadway
of General American Transportation
Company, Plant 1, East Chicago, Indiana

SHUT THE SAFETY GATE...
AUTOMATICALLY IT'S LOCKED!
EVEN THE CONSTANT LIFTING
AND DROPPING OF A
SQUEEZE RIVETER IN
OPERATION WON'T SHAKE
THE HOOK LOOSE.



DON'T USE THAT HOOK,
IT'S SPRUNG!

NO DANGER OF WEAKENED HOOKS
GOING UNNOTICED, EITHER. THE GATE
SWINGS FREE, WARNING MEN. IF HOOK
IS SPRUNG AS LITTLE AS $\frac{1}{8}$."



Pushbutton lock
With gate open hook's throat is 100% clear
Available in sizes 1 to 16A for all type
hoists, tuggers and come-alongs. Write
for safety hook data sheet.
E. D. Bullard Co., 2680 Bridgeway,
Sausalito, California



Circle Item No. 41—Reader Service Card

From Across the Sea

—From page 48

ities was a special party arranged for the foreign guests at the Top-of-the-Rock Lounge, 42nd story level of the new Prudential Building, by J. J. Cavanaugh, president of the Chicago Motor Club. In addition to the specially invited guests, this party was attended also by 22 foreign safety specialists from British Guiana, El Salvador, Iran, Formosa, Indonesia, Japan, Korea and the Philippines in a special group fostered by the U. S. Department of Labor, and guided by Morris B. Wallach and Robert J. Broderick of the Labor Department.

In addressing the annual meeting, opening session of the Congress on Monday, Mr. Dearborn introduced his specially invited guests in this manner:

"As you know, the National Safety Congress has been attracting more and more safety leaders from foreign lands each year. Travel-worn but eager, they come here to learn of safety work. They are the pioneers who have been establishing organized accident prevention in other countries—and we have always reserved for them our warmest welcome and most sincere encouragement.

"I have long felt that more practical encouragement of these pioneering efforts would follow, and the entire safety movement would be strengthened, if top-level spheres of influence could be developed in every country.

"It was my reasoning that, not only would we encourage expansion of safety programs around the globe, but we'd gain more intimate knowledge of the problems in other countries and learn from them as they, perhaps, were learning from us. Furthermore, I believed, safety is an ideal vehicle to promote understanding among nations—since it inspires cooperation in the name of humanity, without nationalistic heat.

"Two years ago I requested and received the Board's sanction of a plan to invite a highly selective list of influential business leaders and highly-placed government officials from other countries to attend our 45th National Safety

**NEW OUTLOOK on COMFORT and SAFETY
for SINGLE-CUP GOGGLE WEARERS with...**

Solo goggleTM

**THERE'S
NOTHING
ELSE
LIKE IT**

**HIGH-STRENGTH, IMPACT- and
FLAME-RESISTANT, ONE-PIECE
SHELL** of molded Tenite has
rounded, smooth edge all the way
around — cannot possibly cut or
irritate the skin. Attractive glossy
gray finish, cleans easily and with-
stands severe abuse.

**GLASS EASILY REPLACED... JUST
DEPRESS EITHER END OF RETAIN-
ING SPRING... MOVE IT LEFT OR
RIGHT... OUT COME THE SPRING
AND GLASS... re-assembles just
as easily. Patented.**

PICTURE-WINDOW VISION affords
full, unobstructed view. All stand-
ard 2" x 4 1/4" lenses can be used.

No. 55 "Solo goggle"
with adjustable
elastic headband.

SAFETY IN THE "EYE ZONE"...
no sharp edges anywhere to create
a hazard to the eyes. Positively
seated, one piece, smooth stain-
less steel spring locks securely
... cannot slip out accidentally.

ADJUSTABLE ELASTIC HEADBAND
is wide, soft, comfortable, distrib-
utes tension well. Exclusive plas-
tic connecting link rotates freely,
allowing "Solo goggle" to adjust
to facial contours.

No. F-550 "Solo goggle" with
headrest for either snug fit or ven-
tilated "off the face" wear. Wide
range ratchet adjustment fits all
head sizes. Rear section can be ad-
justed to provide secure, comfort-
able resting place on back of head.
Positive single center linkage in
front eliminates pressure on
temples.

COOL, LIGHT AND COMFORTABLE, "Solo goggle" takes the sweat, discomfort
and hazard out of brazing, cutting, gas welding, grinding and similar jobs.
Designed to fit the face snugly and comfortably, "Solo goggle" eliminates light
leakage and moisture fogging. "Solo goggle" can be worn as an added measure
of protection over the latest types of spectacle and personal prescription goggles,
and is available with all shades of welding lens, cobalt blue lenses, or clear
laminated safety glass.

ASK YOUR SAFETY & WELDING SUPPLY DISTRIBUTOR for Bulletin #53, or WRITE...



THE FIBRE-METAL PRODUCTS COMPANY

CHESTER, PENNSYLVANIA

INSULATED EUREKA HOLDERS
HEAD REST GOGGLES • WELD CLEAN-
ING HAMMERS • FRESHAIR SYSTEMS
FACE SHIELDS • SAFETY HELMETS



Congress, which is now getting under way.

"In compiling our list for invitations, we had the valued counsel of the U.S. Departments of State, Commerce and Labor. Trustees of the Council, through their worldwide connections, submitted important nominations, and we had help from many others.

"The response, as you will see in a moment, was most gratifying. Since the wheels of world commerce do not stop for a National Safety Congress, business pressures forced many invitees to decline reluctantly. Serious exigencies forced a few to cancel after accepting the invitation.

"But most of those who accepted were not deterred by usual routines nor by the many thousands of miles that normally separate us—and we are honored today to have the finest representation of top-level business and official leadership ever to come to us from other lands.

"There are 34 of these honored guests, and they come from 20

countries. The government officials range four ministers of cabinet rank to chiefs of major divisions and departments of their governments.

"Industries represented include airlines, breweries, chemicals, coal, finance, insurance, metals, paper, light and power, railroads, rubber and others.

"These distinguished visitors come to us from Argentina, Australia, Belgium, Bolivia, Brazil, Canada, Chile, Costa Rica, Cuba, Finland, Formosa, France, Germany, Great Britain, Greece, Italy, Mexico, Southern Rhodesia, Sweden and the Union of South Africa.

"We want our honored guests to gain a vivid picture of our work through attendance at this Congress. We want them also to catch a fast but diversified glimpse of American industry, so their busy schedule this week will include plant tours at the Ford Jet Engine factory, the Electromotive Division of General Motors at La-Grange, and Standard Oil Com-

pany's Whiting refinery."

Guests who accepted Mr. Dearborn's invitation, and countries they represented were:

Argentina—Jorge Saruba, Argentine Industrial Union, Buenos Aires; and Mrs. Saruba.

Australia—Ian Potter, president, Ian Potter & Co., (bankers), Melbourne; and Mrs. Potter. (Mr. Potter represented National Safety Council of Australia). Herman Dotch, representing Association of Industrial Safety, Sidney.

Bolivia—Manuel Caceres C.—Caja Nacional de Seguridad Social, La Paz.

Brazil—Pierre Marie Bonnin, Companhia Quimica Rhodia Brasileira (chemicals), Sao Paulo. Ernesto Erlanger, Companhia Internacional de Seguros, Rio de Janeiro.

Canada—K. R. Perry, assistant vice president, Canadian Pacific Railway, Montreal.

Chile—Juan Zapata, Companhia de Acero del Pacifico S.A. (steel) Concepcion; representing National



Maximum SAFETY plus SAVINGS

1. Matched set of angular contact bearings.
2. Practically friction free.
3. Seal keeps grease in, foreign matter out.
4. Faster hoisting due to non-spinning loads.
5. Faster load placement due to easy load turning.
6. Faster rigging due to elimination of cranky wire rope performance.
7. Elimination of twists and kinks means longer wire rope life.
8. Safer load placements due to non-spinning loads.

21 standard types available from
½ ton to 250 ton working load

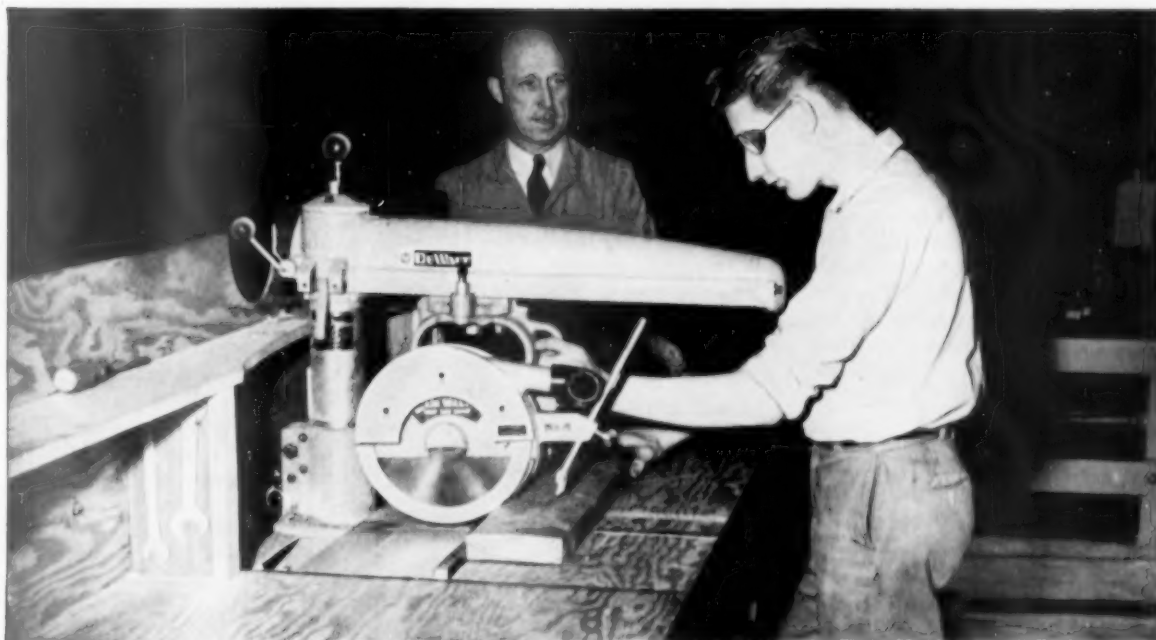


GENERAL MACHINE & WELDING WORKS INC.
1100 East Second St. Pomona, Calif.



MILLER HIGH LIFT BLOCK

Welded Construction, Large Diameter Pin; Shortest Headroom, Moveable Swivel Hook, Individual Sheave Lubrication; Bronze spacers between Sheaves. Available with MILLER SWIVEL HOOK or TIMKEN BEARING HOOK 5-50 Ton Capacity.



Operator experience is no substitute for safe machine design

DE WALT IS THE SAFEST SAW IN INDUSTRY

Since 1922 De Walt has set the pace in modern machine design and operator safeguards!



TOP-SIDE CUTTING—With De Walt's original radial arm design all cuts are made from above...cutter and layout marks always in view for maximum safety. You never cut "blind" with De Walt.



DE WALT-ORIGINATED SAFETY KEY SWITCH on 9" and 10" models turns power on or off—can be removed to prevent unauthorized use.

COMPLETE CUTTING HEAD PROTECTION! Adjustable safety guard with anti-kick-back device plus De Walt's exclusive tool guard gives full operator protection for every cutting operation!



EXCLUSIVE POWER BRAKE AND SPIRALATOR SAFETY RETURN (optional features) stops the saw or cutter in seconds when power is turned off—automatically returns motor and

tool to safe, behind-the-fence position when released.

POWER CROSS FEED AND RIP FEED first brought to a radial arm saw by De Walt give added safety for all operations.

And the De Walt® Radial Arm Saw gives unequalled versatility and efficiency, too! De Walt shapes, sands, dados, grinds, routs, surfaces, drills, becomes a saber saw, etc. . . . does the work, saves the space and cost of a whole shopful of separate woodworking machines. Operators everywhere prefer DeWalt for safety and efficiency. Available from 9" to 20", ¾ hp to 10 hp, for every industrial cutting need. A complete shop in one machine for as low as \$239.

Send the coupon today!



De Walt Inc., Dept. NSN-712, Lancaster, Pa. Subsidiary of AMERICAN MACHINE & FOUNDRY COMPANY



- ☐ Please send Free illustrated booklet on Job-Tested Safety Cutting Methods.
☐ I would like full information on your Free 16 mm sound film (25 min.).

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 School _____
 Address _____
 City _____ Zone _____ State _____



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Safety Council of Chile.

Costa Rica—Lawrence Coen, Cia. Nacional de Fuerza y Luz, S.A., San Jose.

Cuba—Alfredo Gz. Munoz, vice pres. Cia. Goodrich Cubana, Habana; and Mrs. Munoz.

England—W. G. Hiscock, director, Consolidated Zinc Corp., London, (formerly director general of ordnance, Ministry of Supply.) H. Mitchell, general mgr., Ambrose Shardlow & Co., Sheffield. William Reid, National Coal

Board, Newcastle Upon Tyne.

Finland—Mrs. Tyyne Leivo-Larsson, member of Parliament, delegate to United Nations, (formerly Minister of Social Affairs), Helsinki.

France—P. Depoid, director-general, La Prevoyance Compagnies d'Assurances a Primes Fixes (insurance), Paris; and Mme. Depoid. M. Delaporte, directeur adjoint, de l'Urbaine et la Seine (insurance) Paris.

Germany—Prof. Dr. Walter

Linden, president, Bundesverkehrs-wacht, (National Road Safety Council) Bonn and Essen.

Greece—Nicholas Theodorou, chief of employment exchanges, Ministry of Labor, Athens.

Italy—Raoul Ferreri, exec. vice president, Finsider, Rome.

Mexico—Jose Angel Conchello, Cerveceria Moctezuma, S.A. (breweries) Mexico. Euquerio Guerrero, Cia. Mexicana de Luz y Fuerza Motriz S.A., Mexico, D. F. Raul Mejia Chavez, president, Assn. Mexicana de Ingenieros y Jefes de Seguridad, A.C., Mexico, D. F. R. F. Moody, president, Compania Hulera Euzkadi, S.A., (rubber) Mexico, D. F.

South Africa—P. A. deVilliers, chief engineer, Department of Transport, Pretoria; and Mrs. deVilliers. E. G. Stokes, Transvaal and Orange Free State Chamber of Mines, Johannesburg.

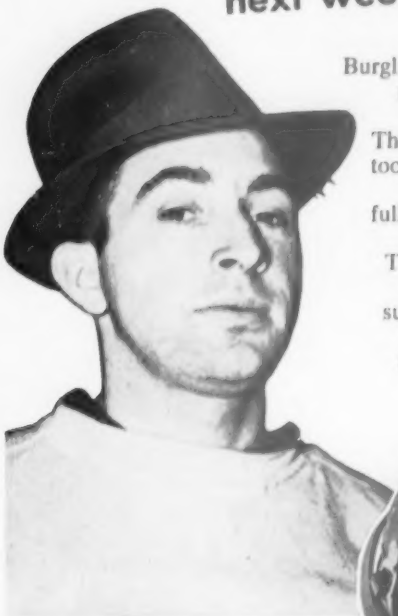
Southern Rhodesia—P. Redelinghuys, Department of Labor, Salisbury.

Sweden—Sven Hyden, director, Swedish Employers Confederation, Stockholm; and Mrs. Hyden.

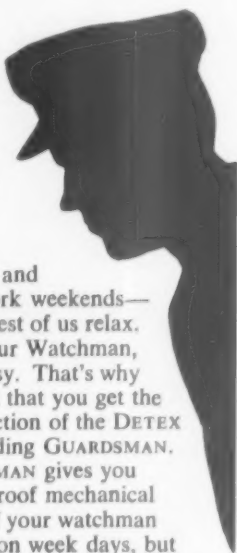
Taiwan—Tsui Hsing-ya, asst. manager, Kaohsiung Refinery, Chinese Petroleum Co., Kaohsiung, Taiwan (Formosa).

Uruguay—Mario Beltrami, safety manager, RAUSA (Remolacheras y Azucareras del Uruguay, S.A.) (sugar mills) Montevideo.

Will your watchman
be ALERT for this prowler
next weekend?



Burglars, vandals and arsonists work weekends—when the rest of us relax. They figure your Watchman, too, takes it easy. That's why it is urgent that you get the full-time protection of the DETEX tape-recording GUARDSMAN. The GUARDSMAN gives you tamper-proof mechanical supervision of your watchman not only on week days, but also on weekends and holidays. Send for the vital facts.



FREE INSPECTION

Is your watchman's tour giving you maximum protection? Are your clocks adequate, your register keys in good order, the station box screws properly sealed? It won't cost you anything to find out. Write or telephone for a DETEX inspector.

Find Your Nearest
DETEX Inspector
In The
Yellow Pages

Detex Watchclock Corp. 76 Varick Street, New York 13, N. Y.

- ☐ Please send me complete information about the GUARDSMAN tape-recording watchclock.
☐ You may send a DETEX Inspector to make a free, no-obligation survey of our N-12 plant protection needs.

Name.....

Company.....

Address.....

Title.....

Circle Item No. 45—Reader Service Card



"Better fix the leak in Joe's coolant pipe. He seems to be making quite an issue of it."



Protect your plant with the same Ansul extinguishers that guard this big steel mill

Well-planned safety and fire prevention programs are doing their share to protect lives, property and production schedules at the Great Lakes Corporation, Detroit, Mich., division of National Steel Corporation. Ansul fire extinguishers are playing a part in this successful program.

Your safety program deserves the best in fire protection. Remember, fire doesn't give you a second chance. Here are three big reasons why Ansul dry chemical extinguishers can take the worry out of your fire protection program and help you maintain a safety record to be proud of:

First. Ansul extinguishers are *dependable*. They are always ready for action, even under severe exposure conditions. Weather-tight construction assures this

dependability. Second. Ansul extinguishers are *effective*. Patented nozzles deliver either a straight or fan stream, depending upon the hazard. This is an Ansul exclusive for more effective fire control. *Third.* Ansul extinguishers are backed by a *five-year warranty*. This is the best way we know of saying that Ansul extinguishers are the finest of their kind made anywhere. No other manufacturer offers this important warranty.

Get in touch with your local **ANSUL MAN** through the yellow pages of your phone directory, or write direct to **ANSUL CHEMICAL COMPANY, DEPT. NS-12, MARINETTE, WISCONSIN.**



Circle Item No. 46—Reader Service Card

Take Home Safety

—From page 25

enthusiastic over the program; the Company has gained in its public relations with the plant communities; and economically both the Company and the employees have gained.

The following steps are suggested for instituting a program in a multi-plant company:

1. Individual plant managements should be given an explanation of the details of the program, why it is being instituted, the results expected, and suggestions for their action.

2. A central office should accumulate the experience of all of the units in order to obtain overall company experience. For simplification purposes, only operating units might be included in the activity initially.

3. Definition of an off-the-job injury should be clearly stated.

4. A simplified form should be furnished for reporting off-the-job injuries at a particular unit. A second form should be furnished for reporting the unit's experience to the central office.

5. A formula should be established for determining off-the-job exposure hours in order to establish a base for comparative progress.

6. A frequency rate determination is suggested in order to determine the trend of experience.

7. Units should be encouraged to report to the central office the programs which have proven successful in order that they can be made available for consideration by other units. This procedure can prove to be very helpful.

8. Off-the-job programming should not be considered separately but should be integrated with the on-the-job program.

If the program is administered properly there need be no concern over employees feeling that their private lives are being violated. Benefits will soon become apparent, which will more than justify the thinking and effort to start the program as well as its continuation.

For those who have decided that now is the time for action, further specific suggestions and information may be secured from the staff representative assigned to this activity by the National Safety Council.

DON'T GAMBLE WITH SAFETY



GET MORE PROTECTION WITH THE GILBARCO ELECTRONIC INDICATING GROUND

Wherever highly volatile liquids are loaded — bulk plants, tank farms, or terminals — be sure of proper grounding. Install the Gilbarco Electronic Indicating Ground.

POSITIVE — Establishes ground and indicates its safety by either light or audible signal.

SAFE — Reveals faulty grounds caused by cable defects, paint, corrosion or carelessness which lead to fires.

SIMPLE — Gilbarco's electronic ground is easily installed in any grounding circuit. Furnished complete with clamp and cable.



Gilbarco
Gilbert & Barker
Manufacturing Company
West Springfield, Mass.
Toronto, Canada

Circle Item No. 47—Reader Service Card



"In a way, Quigley, I'm glad you decided not to take an accident policy."



safe climb
...on a 60°
grade!

WITH ALCOA ALUMINUM ABRASIVE TREAD PLATE

You *could* do it . . . on Alcoa® Aluminum Abrasive Tread Plate!

Here's a surface with the grip and bite of a grindstone . . . for it's made of the same aluminum oxide particles used in grindstones.

These abrasive particles are rolled right into aluminum—strong, light, rustproof, maintenance-free plate. It stays slip-proof even when wet, oily or greasy. Since the abrasive is rolled in, its slip-proof qualities are more than surface deep!

Use this safer abrasive tread plate wherever hazardous conditions exist. Your safety committee knows where they are.

Just remember that each year 20,000 workers are killed and thousands injured by falls due to slipping. Preventing just a single such accident in your plant makes Alcoa Aluminum Abrasive Tread Plate the best insurance you can buy!

Check the coupon for a four-inch sample, ask for complete details. Aluminum Company of America, 1671-F Alcoa Building, Pittsburgh 19, Pennsylvania.

Your Guide to the Best in Aluminum Value



NEW! "ALCOA THEATRE"
Exciting Adventure
Alternate Monday Evenings

Aluminum Company of America
1671-K Alcoa Bldg.
Pittsburgh 19, Pa.

Please send literature and four-inch sample of abrasive tread plate.

NAME AND TITLE _____
COMPANY _____
ONE BEING CONSIDERED _____
ADDRESS _____
CITY AND STATE _____

Circle Item No. 48—Reader Service Card



SAFETY FILMS

NSC Announces Change in Film Ordering Procedure

On January 1, 1958, the National Safety Council will turn over its film rental libraries to Association Films, Inc., which will handle bookings, shipments, and billings direct with customers. From that date, film users are asked to address and send orders for rental and loan prints to Association Films—not to the Council.

The company has four distributing offices:

1. Broad at Elm, Ridgefield, N. J.
2. 561 Hillgrove Ave., La Grange, Ill.
3. 799 Stevenson, San Francisco.
4. 108 Jackson, Dallas, Tex.

To speed bookings, send requests to the nearest office.

The Council is accepting rental and loan bookings for dates up to and including December 1, 1957. Orders for preview and purchase prints should always be sent directly to the National Safety Council.

Gloves and Vehicles

The Bureau of Safety has two filmstrips and records for the public utility industry. One, *First Line of Defense*, deals with the manufacture, testing, and correct use of rubber gloves and sleeves in line work. Although some of the production details manufacturing and inspection standards, a good portion shows how to test and inspect this protective apparel before using it on any job.

Stress is on importance of constant inspection for cracks and tiny holes which may not be apparent unless proper tests are made. The dangers of such imperfections and signs of wear are emphasized.

The second production, *Backing Into Trouble*, is for drivers in public utility work. Scale model ve-

hicles are used to illustrate causes of actual accidents while the vehicles were backing in parking lots, alleys, driveways, and on the highway. How these accidents could have been avoided is shown. Types of vehicles range from company cars to large trucks.

Both productions are in color, the first running 15 minutes, the second, 12 minutes. Prints can be purchased from the Bureau of Safety, 20 N. Wacker Dr., Chicago 6.

"Everyman's" Accidents

A general accident prevention filmstrip and record is available through Zurich-American Insurance Company agents. *Anyone You Know?* was produced by Paragon Pictures, Inc., and runs 15 minutes in black & white.

It deals with "Everyman" (E.M.) and some of the accidents he has—serious, funny, fatal, and some rather fantastic. Through all this, the idea is presented that accidents can be prevented by proper attitude, protective equipment, safe clothing, and attention to detail.

Prints can be borrowed through Zurich agents, or ordered direct from Zurich-American Insurance Company, 135 So. La Salle St., Chicago, for a small service charge or for purchase.

Industrial Nursing Careers

A new film for nurses contemplating a career in industry is *The Role of the Industrial Nurse*, sponsored by Jones and Laughlin Steel Corporation and produced by their film department.

Although this production is intended as an indoctrination film for nurses about to start working for Jones & Laughlin, it does give a picture of the varied responsibilities of a nurse in a large medical department of big industry. The duties of the nurse from her first day at work are depicted in

various parts of the company. She is also shown attending meetings, classes, and conferences.

The film runs 15 minutes, is in full color, and can be borrowed from Jones & Laughlin Steel Corp., Public Relations and Advertising, 3 Gateway Center, Pittsburgh 30, Pa.

Railroad Film Revised

The Denver and Rio Grande Western Railroad Company recently produced a revised version of their 1944 production, *Safety In Action*. Using a device of two block signals—one red to show an incorrect action and one green to show a correct action—various practices which lead to accidents in railroad transportation operations are depicted.

The film runs about 28 minutes, is in full color and can be borrowed or bought from the producer-sponsor, P. O. Box 5482, Denver 17, Colorado; attn: Superintendent of Safety.

Underground Safety

The Gypsum Association has two 35mm sound slidefilms on mining safety which were produced with the assistance of the National Safety Council. *Look Out Below* and *Teamwork Underground* are in color and run about 10 minutes.

The first deals with major safe practices in drilling blast holes with a mounted auger-type drill; handling and loading explosives into holes, and operating a roof bolting machine, including the testing of the roof.

Teamwork Underground deals with the maintenance men, loading machine crew, and shuttle car operators and motormen. The precautions needed for all these people to insure their own and others' safety make up the production.

Both can be purchased from the Gypsum Association, 20 N. Wacker Dr., Chicago.

Handle with Care

Television Picture Tube Implosions is a new motion picture produced by the Engineering Extension and Engineering Experiment Station of Iowa State Col-



SANTA'S HELPERS. Telephone operators Carolyn M. Kraatz and Arlene P. Halgin, of New York City, symbolize the country-wide spirit of Christmas giving.

Telephone Folks Will Play Santa for Thousands of Kids

As you read this, telephone operators all over the country are dressing thousands of dolls for distribution to children's homes and hospitals at Christmas.

Throughout the Bell System, thousands of other telephone men and women are col-

lecting food, candy, toys and dollars for those less fortunate than themselves.

It's a telephone tradition—and a natural one. The spirit of service and the spirit of Christmas are close together. And telephone folks try to be good citizens all year 'round.

Working together to bring people together . . . **BELL TELEPHONE SYSTEM**



HERE'S PROOF...

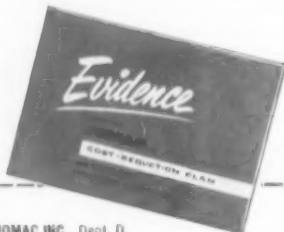


GLOVE COSTS REDUCED 43% by the **JOMAC** COST-REDUCTION PLAN

Customer: well-known manufacturer of aircraft parts. Operation: strip steel stamping. This is just one of scores of Jomac Cost-Reduction Plan case histories we can show you. Write for "Evidence" booklet shown opposite. Get *proof* that this plan can work for you, too!

JOMAC
INDUSTRIAL GLOVES

Plants in Philadelphia, Pa., and Warsaw, Ind.
In Canada: Safety Supply Company, Toronto
In Europe: North-Jomac Ltd., London, W1



JOMAC INC., Dept. D,
Philadelphia 38, Pa.

- ☐ Send us a copy of your "Evidence" booklet
☐ Have a representative contact us

Name _____

Company _____

Address _____

City _____

State _____

lege. Using slow motion photography, the opening sequences show just exactly what happens when one of these tubes implodes—the flying, sharp particles cross over one another from front to back and scatter with terrific force. The implications of these actions in terms of possible physical injury to anyone in the vicinity are clearly indicated.

From there, the film shows how to protect against such hazards. The handling of tubes in the factory, wholesale house and retail store are covered. Then the repairman and housewife are instructed in removing tubes and spotting danger in sets.

Attention is also given to making discarded tubes safe from the possibility of being imploded by curious children who might be playing nearby.

Prints of this film can be purchased from Iowa State College, Engineering Extension, Ames, Iowa.

Ether Hazards

The U.S. Department of Health, Education and Welfare, Public Health Service, has sponsored a film on the hazards of ether vapor in operating rooms.

Entitled *Ether Trail Hazards*, this color, 10-minute production explains the action of ether vapor, demonstrates the way in which it ignites, and briefly illustrates a method of quickly extinguishing possible fires. Precautions against ignition of vapor are discussed briefly.

The film was produced with the assistance of the National Safety Council. Information on obtaining prints can be had from the Public Health Service, U. S. Dept. of Health, Education and Welfare, Washington 25, D. C.

Electric Arc Welding

Air Reduction Sales Company has a filmstrip and record to go with their 1954 production, *The Guy Behind Your Back*, which deals with safe practices in oxy-acetylene welding. The new one, *Always On the Job*, deals with safe practices and hazards of electric arc welding. Both use cartoon characters to tell the story.

Circle Item No. 49—Reader Service Card

The production runs 20 minutes, is black and white, and can be purchased or borrowed from Air Reduction Sales Co., Div. Air Reduction Co., Inc., 150 E. 42nd St., New York 17.

Defensive Driving

The National Safety Council will soon release a new series of films for commercial vehicle drivers under the title *The Defensive Driving Series*. Each of the six black and white, 10-minute films will present a specific problem or situation involving the driver and another vehicle which can be dangerous unless precautions are taken by the driver.

No specific types of commercial vehicles will be identified in the film. Blocks of wood will represent vehicles in the demonstrations. Live action, artwork, and some animation will be used.

The individual films in the series will be entitled *How To Follow Safely*, *Don't Be a Sitting Duck*, *Stay Right-Stay Safe*, *What Right-of-Way?*, *The Art of Being Passed*, and *How To Pass Safely*.

Individual prints will be available for rental through Association Films, Inc. after January 1, 1958. Prints or sets will be available for purchase from the Council about the middle of December.

Fatal Accident

The Death of A Lineman is another production sponsored by Edison Electric Institute's Accident Prevention Committee. A color sound slidefilm running seven minutes, it traces the events leading up to and through an accident causing a lineman's death. A review of the number of such accidents follows with the causes pictured.

Prints can be purchased from the sponsor at 420 Lexington Ave., New York 17.

No Longer Available

Aetna Life Affiliated Companies has withdrawn their production *Toward A Generation of Safer Drivers*. This is listed on page N-35 of the National Directory of Safety Films (current issue).

**WHY WAIT
for Sling Chains?**

NOW... in minutes...you can assemble or rebuild your own Herc-Alloy sling chains with all components furnished by your CM Chain Distributor. Call him today for literature and prices.

HOW IT'S DONE...



Hammerlok is the answer. This new coupling link gives you sling chains faster than ever...and sling chains that are actually safer than ever. No peening! No welding! Hammerlok can be assembled by anyone who can drive a nail. Endorsed by leading alloy chain users.

COLUMBUS McKINNON CHAIN CORPORATION

Tonawanda, New York

DISTRICT OFFICES: NEW YORK • CHICAGO • CLEVELAND

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Falcon®

"Sounds for Safety"

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|---|--|
|  | <p>AUTOMATIC HIGH-LEVEL alarm prevents costly, dangerous overfilling of petroleum, chemical, water, other liquids in fixed- and floating top, indoor and outdoor, mixing, storage tanks. Safe, reliable gas-powered horn audible for one-half mile and more.</p> |
|  | <p>MANUALLY-OPERATED, gas-powered signaling horns ideal for emergency and 1,001 other uses. Self-contained units are highly portable, entirely reliable. Non-electric operation permits use in hazardous vapor areas. Small units feature disposable Freon cans.</p> |
|  | <p>NEW AUTOMATIC fire detecting systems and units give early warning in case of fire. Heat activates any single Freon-powered detector in system, instantly sounds horn. Ideal for homes, institutions, commercial, industrial buildings. U/L approved, low cost.</p> |

DEALER TERRITORIES OPEN
Falcon Alarm Co., Inc.
 243 Broad St., Summit, New Jersey

Around the Compass

—From page 58

displays, cycle riding and various driving contests, from kiddy cars to tandem axle trailers, were the order of the day.

The Truck Rodeo and S.O.S. Day are sponsored by the Association of Fleet Supervisors in collaboration with the B.C. Automotive Transport Association. The Fleet Supervisor group operates jointly with the Vancouver Traffic and Safety Council concerning itself chiefly with commercial vehicle accident prevention.

Lansing Holds Home, Family Conference

The Women's Division of the Safety Council of Greater Lansing (Michigan) held a Home and Family Safety Conference on October 31.

Included on the program were the talks, Parental Responsibility to Minors and Simple First-Aid Care of the Sick and Injured, a demonstration of driver-testing equipment, and a presentation on fires.

Plan Safety Program for Highway Employees

A preliminary 6-point development program is being designed by the North Dakota Division of Public Safety for internal use among all state Highway employees, according to Highway Commissioner, A. W. Wentz.

Dale Doty, Employee Safety Coordinator with the Safety Division, will have charge of the program.

The purpose of the program is to establish a workable, easy-to-understand procedure for promoting safety precautions among state employees and within state-owned or operated facilities, Wentz reported.

A struggling author had called on a publisher about a manuscript he had submitted.

"This is quite well written, but my firm only publishes work by writers with well-known names," said the publisher.

"Splendid," said the author. "My name's Smith."

No Time Wasted!

WHEN WORKERS WEAR

STASAFE

WINDSOCKS

The Safety Hat Liners
That Need No Installation

9" length \$2.64 doz.

11" length \$3.00 doz.



Windsock is an inexpensive knit cap that's warm, lightweight and snug. It actually costs less than the time alone spent by a worker in installing or removing a permanent type liner. Buy a dozen and test them. See for yourself how Windsocks put an end to those chilly drafts that whistle between the safety hat shell and your head.

Write for Descriptive Bulletin No. 52

STANDARD SAFETY EQUIPMENT COMPANY

232 West Ontario Street, Chicago 10, Illinois

1958 Accident Forecast

—From page 19

ratios will not change in 1958 from 1957. The death total away from work will be about 32,000; the injury total about 2,500,000.

The principal accident source away from work is motor vehicle accidents. Deaths from these accidents are expected to be somewhat lower in 1957 than the 1956 total of 19,400, but at this time it seems unlikely that the gain will be extended into 1958. Continuous increases in the numbers of drivers and automobiles, and in the amount of travel being done appear likely to offset improvement in accident rates, with the result that death totals probably will show little or no change.

Public accidents and home accidents, which killed about 6,500 and 6,300 workers, respectively, in 1956 are not expected to show much change in either 1957 or 1958.

PERSONALS

News of people in safety
and related activities

Heads Kentucky Health Institute

JOHN M. KANE, manager of dust control products, American Air Filter Company, Louisville, Ky., has been elected president of the board of directors of the Occupational Health Institute of Kentucky. He succeeds James F. Bleakley, Shuler Axle Company, who remains on the Board. The election was announced at the Institute's recent annual meeting in Louisville.

Other members of the Board are W. W. Stalker, James B. Lenihan, Dr. A. Lemuel Rosenblatt and James M. Graves.

The Occupational Health Institute is a non-profit organization for the advancement of health and health practices in Kentucky industry. The corporation was formed two years ago to assist industries in developing accept-

Circle Item No. 53—Reader Service Card

My eyes! My face!



Model 8933:

Face spray ring acts simultaneously with eye-wash, sending controlled streams of water from specially designed twin fountain heads.

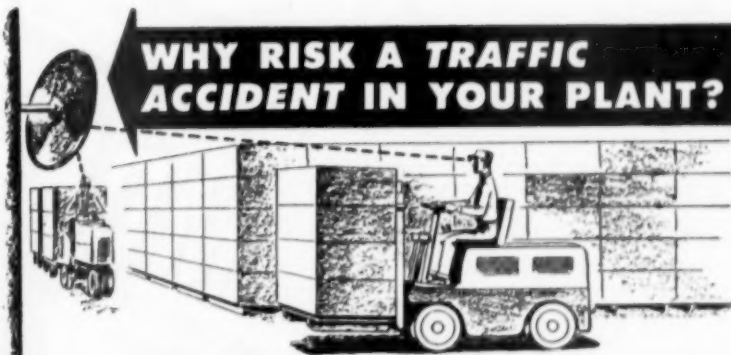
Provide instant relief with ... **HAWS** **EMERGENCY EYE and FACE WASH FOUNTAINS**

Eye and face hazards are inevitable in industry... so take positive steps to reduce the extent of injury and minimize insurance claims. HAWS Emergency Eye and Face Wash Fountains flood contaminated areas with water — instantly ridding face and eyes of caustics, chemicals and dangerous particles. This **instant relief** may well prevent permanent damage — bridging the gap until medical aid arrives. Install extra safety — HAWS Emergency Fountains and Drench Showers.

Write today for detailed information on the complete HAWS line of emergency facilities. HAWS DRINKING FAUCET COMPANY, 1443 Fourth Street, Berkeley 10, Calif.

HAWS

WHY RISK A TRAFFIC ACCIDENT IN YOUR PLANT?



KLEAR-VU SAFETY MIRRORS are the answer to the dangerous blind corner problem in your plant or warehouse. They are also adaptable for outdoor use in your parking lot, loading dock area or other points where traffic converges.

Mounted at cross aisle intersections, entrances and exits at a height of 8 to 10 feet, Klear-Vu Safety Mirrors clearly reflect oncoming intersection traffic to both power truck operators and pedestrians.

| Style | No. | Dimensions |
|------------------------|---------|------------|
| Circular Convex Glass | 120 | 12" dia. |
| Circular Convex Glass | 180 | 18" dia. |
| Circular Convex Glass | 240 | 24" dia. |
| Circular Convex Glass | 300M.R. | 30" dia. |
| Circular Convex Glass | 360M.R. | 36" dia. |
| Flat Glass Rectangular | 918 | 9"x18" |
| Flat Glass Rectangular | 1640 | 16"x24" |

M.R. indicates metal rim.

Available in either convex or flat glass styles, the mirrors are easily installed and quickly adjustable to any desired angle.

LESTER L. BROSSARD CO.

540 N. MICHIGAN AVE., CHICAGO 11, ILL.

Write for
Bulletin.

SELF-ADHERING GAUZTEX PREVENTION AND CURE



PROTECTS AIDS IN HEALING

1. Gauztex Industrial Tape

Gauztex sticks to itself—not to you. The ideal protective covering when your work deals with abrasives or sharp edges. Open mesh to allow skin to breathe adds to natural "feel." The adherent adds to "grip." Both add up to protection that speeds production. Available in regular and oil resistant to meet job conditions.

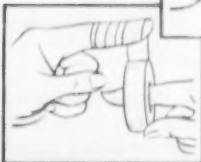
2. Gauztex Sterile Bandage

Eliminates painful pull, will not stick to hair, skin, or clothing. Saves time, makes a compact bandage even in hard-to-bandage places. Open gauze mesh allows the skin to breathe—heal faster.

Here's all you do to protect and help heal.

1. LOCK IT!

—by overlapping and pressing together.



2. WRAP IT!

—sticks to itself not to you.

Send for FREE Sample

General Bandages, Inc.
531 Plymouth Court
Chicago 5, Ill. Dept. NS-12

Please send sample roll and information on:

____ Gauztex Industrial Tape
____ Gauztex Sterile Bandage

Firm _____

Title _____

Address _____

City _____

State _____

able occupational health programs. New regulations and laws were adopted in 1956 which place significantly increased responsibility on the employer relative to employee health and occupational illness.

Its program consists of three categories of services—employee testing or screening; health education services; and environmental health and industrial hygiene services.

The Institute's mobile health unit visits each member firm at least once a year to administer chest x-rays; vision examinations; audigram tests for early signs of hearing loss; blood pressure, weight and height measurements; tests for anemia and diabetes, etc.

Gurske Resigns from U. S. Labor Department

PAUL E. GURSKÉ resigned as director of the Labor Department's Bureau of Labor Standards on November 1, according to an announcement by Secretary

of Labor James P. Mitchell. Mr. Gurske's resignation was compelled by serious illness in his family.

In accepting the resignation, Secretary Mitchell said: "Mr. Gurske has given almost four years of outstanding service to the Department of Labor for which all of us in the Department are deeply grateful. I know I speak for all Department employees when I say that we will miss him greatly, and we wish him and Mrs. Gurske all the best in the years to come."

Before coming to the Department of Labor in April 1954, Mr. Gurske was chairman of the Oregon State Industrial Accident Commission for 11 years. Prior to that he served as president of the Oregon State Federation of Labor for four years, and for 15 years as business agent, Street Car and Motor Coach Operators Union, AFL.

He also has been a consultant and lecturer on workmen's compensation laws and occupational

LATEST
DEVELOPMENT IN
WHEEL GUARDS... FOR PORTABLE
GRINDERS WHEN USING FLARING CUP
AND STRAIGHT CUP WHEELS...

MORRISON

CUP GUARDS

REVOLVING

REVOLVES WITH WHEEL

MAXIMUM
STRENGTH AND SAFETY—
Allows Full View of Work

| Part | Size | List Price | |
|------|---------|------------|--------------|
| C-6 | 6-6 1/2 | \$4.90 | FLARING CUP |
| C-5A | 5-7 | 4.80 | |
| C-5B | 5-3 1/2 | 4.80 | |
| C-4 | 4-3 | 4.70 | STRAIGHT CUP |
| CS-6 | 6 | 4.90 | |
| CS-5 | 5 | 4.80 | |
| CS-4 | 4 | 4.70 | |

Adaptor for straight flanged wheel—list price \$4.75

SEE YOUR GRINDING WHEEL SUPPLIER

MORRISON PRODUCTS INC.

14114 Waterloo Road
Cleveland 10, Ohio

safety at Oregon State College, and chairman of the safety committee, American Association of State Compensation Insurance Funds. His nationally recognized occupational safety programs brought Oregon one of the lowest occupational accident rates in the country.

Born in October 1889 at Cornelius, Ore., Mr. Gurske has two sons, both veterans of World War II. He and Mrs. Gurske will make their new home at Pompano Beach, Florida, near Fort Lauderdale.

NSC Names Two To Industrial Department

THE INDUSTRIAL Department of the National Safety Council has announced the appointment of two staff members. EDWIN L. ALPAUGH has been named director of industrial hygiene and staff representative for the Chemical Section. PAUL E. SHEPPARD has joined the department as staff representative for the Electrical Equipment and Public Utilities Sections.

A graduate of the Illinois Institute of Technology, Chicago, with a B.S. degree in chemical engineering, Mr. Alpaugh was formerly head of health and safety, Analytical Laboratory Department, National Lead Company of Ohio, Cincinnati.

During World War II he left his job as metallurgist for Inland Steel Company, Indiana Harbor, Ind., to serve nearly four years as a radioman with the U.S. Coast Guard. In 1951 he worked for the Cities Service Technical Service Laboratory, East Chicago, Ind. From November 1951 until 1955 he was assistant engineer for the City of Cincinnati.

From 1955 to 1956, Mr. Alpaugh was senior industrial hygienist with the Feed Materials Production Center (Atomic Energy), National Lead Company of Ohio, Cincinnati.

He is a member of the American Institute of Chemical Engineers, the American Industrial Hygienists Association, and the Air Pollution Control Association of America and is registered in Ohio as a professional engineer.

A native of Janesville, Wis., Mr. Sheppard attended business col-

Circle Item No. 57—Reader Service Card

Protect

Your FEET

The Reece Way




No. 504-S

Reece STRONG STEEL TOE is HIGH and ROOMY

Reece WOOD SOLE is E.Z. WALKING—heatproof—coldproof—punctureproof—acidproof. Uppers of most durable leather.

Strap-on this "HOT FOOT" SOLE—walk on hot floors, ovens and furnaces. Keep the heat off your feet.

No. 351—above—2 hinges
No. 251—one hinge
No. 300—one hinge

Write us

There is no substitute for Reece Wooden Soles

REECE WOODEN SOLE SHOE CO.

DEPT. N-S-12-57 COLUMBUS, NEBRASKA

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lege there before joining Lumbermen's Mutual Casualty Company, Chicago, as a safety engineer in 1947. From 1951 until early 1957, he was safety director with the Milwaukee (Wis.) Gas Light Company. His last position prior to coming to the Council was safety director for the City of St. Petersburg, Fla.

Mr. Sheppard is a member of the American Society of Safety Engineers and is past vice-chairman of the Society's Milwaukee Chapter. He is also past chairman of the Wisconsin Utilities Association's accident prevention committee and a past member of the Wisconsin Council of Safety and the American Gas Association's accident prevention committee.

ROBERT P. DOUGLAS, director of safety for Detroit Edison, has retired after more than 42 years of service with the company.

Mr. Douglas was born in Huntingdon, Que., and attended Canada Business College in Chatham, Ont. His association with Detroit Edison dates back to 1915 when he joined the Essex County Light and Power Company — formerly owned and operated by Edison in Canada.

During World War I, he served overseas with the Canadian Field Artillery and returned to Edison in 1919 as an employee of the safety department in Detroit. He



R. P. Douglas

was promoted to assistant safety engineer in 1930 and has been head of the safety department since 1943.

Widely known for his work in local and national safety organizations, Douglas has served as secretary-treasurer of the Detroit Industrial Safety Council; chairman of the Accident Prevention Committee for Edison Electric Institute; president of the Michigan Safety Conference; and as chairman of the Fire Prevention Committee for the Detroit Board of Commerce.

He also has been a member of the Industrial Conference of the National Safety Council, a member of the Safety and Traffic Committee for the Automobile Club of Michigan and was recently elected vice-president of the Veterans of Safety.

He is the author of several articles on safety administration which have appeared in national publications and has served for ten years as chairman of the First Aid and Water Safety Department of the Detroit Chapter of the American Red Cross.

L. CLANCY NANRY, formerly assistant director of safety, succeeds Mr. Douglas.

Mr. Nanry, who has been with Edison 30 years, started as a clerk in the overhead lines department and has been active in the company's safety program since 1937 when he was named assistant safety supervisor of overhead lines. He transferred to the safety



L. C. Nanry

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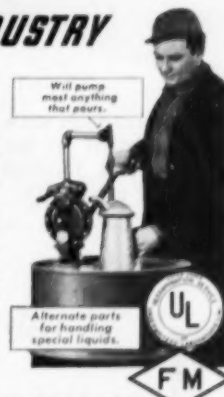
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department as assistant director in 1944.

Before joining Edison, he attended the Liberal Arts College at the University of Michigan for two years and, later, studied business law and other courses at the University of Detroit.

He is a member of the Veterans of Safety, a member of the Accident Prevention Committee for Edison Electric Institute, and has recently been named General Program Chairman for 1958 of the Public Utilities Section of the National Safety Council.



A. W. Shea

A. W. SHEA became superintendent of safety for the Milwaukee Road with headquarters in Chicago, effective November 1. He succeeds E. G. KIESELE who retired October 31 after more than 50 years' service.

Mr. Shea started with the railroad in its police department in Chicago in 1938. In 1950 he was appointed district safety engineer and in 1956 assistant superintend-

ent of safety, headquarters Chicago.

Mr. Kiesele started with the company in Dubuque, Iowa, in 1907 where he later was yardmaster. Subsequently he was trainmaster, Green Bay, Wis.; superintendent, Chicago Terminals; superintendent, Dubuque and Illinois Division, headquar-

ters Savanna, Ill. (1950 to 1952) and since January 1, 1953, superintendent safety, headquarters Chicago.

Seven Council Members Honored at Congress

At sessions of the 45th National Safety Congress Citations for Distinguished Service to Safety were presented to seven outstanding personages in the field of industrial safety. They were:

J. J. Forbes (Coal Mining Section), retired director of United States Bureau of Mines, Washington, D. C.; Program Committee chairman of the Section for many years.

Carl E. Holmes (Marine Section), marine claims manager, Marsh & McLennan, Inc., retiring in 1958; past general chairman and long-standing active committee member of the Section.

J. T. Kidney (Rubber Section), manager, Employee Service Division, Goodyear Tire & Rubber Company, retiring in 1958; past general chairman of Rubber Sec-

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tion and an Executive Committee member since 1928.

W. F. Leonard, Jr. (Food Section), vice president-director of safety and insurance, The Southland Corporation; chairman of various committees in the Food Section since 1945; active in many fields of industrial and public safety.

S. B. Parsell (Marine Section), manager, Inland Waterways Division, Marine Department, Socony-Mobil Oil Company, retiring December, 1957; newsletter editor of Marine Section continuously for eight years; active member of the Section's Executive Committee.

Robert Scott (Railroad Section), retired director of Safety and Insurance, Atlantic Coast Line Railroad Company; past general chairman, Railroad Section; member of the Executive Committee for over 40 years.

Harold E. Sneed (Construction Section), retired works manager and consultant, DeWalt, Incorporated; member, Construction Section Executive Committee for 15 years, holding various sub-

committee chairmanships; active in designing safety into machines.

Obituaries

G. SCOTT KALLENBAUGH

G. SCOTT KALLENBAUGH, director of the Accident Prevention Division of the State Industrial Accident Commission of Oregon, died October 21 of a heart attack while attending the National Safety Congress in Chicago. He was 64.

Active in safety work for 28 years, Mr. Kallenbaugh was prominent in National Safety Council and American Society of Safety Engineers activities. He was a member of the Small Business Committee of the Council's Industrial Conference.

He was for seven years a safety supervisor for Carnegie Steel Corporation and later became director of unemployment compensation for Ohio. Prior to joining the Oregon Commission in 1955, he

was assistant superintendent, Division of Safety and Hygiene, Industrial Commission of Ohio.

As chairman of the Safety Codes Steering Committee of Ohio, Mr. Kallenbaugh directed extensive writing and rewriting of safety codes by labor and management representatives. He was a member of the planning committee of the President's Occupational Safety Program in 1954 and a representative of the Ohio Industrial Commission on several American Standards Association code committees.

He is survived by a daughter, Mrs. Harry Mills of Amherst, Ohio. Burial was in Amherst, October 25.

ROBERT SCOTT

ROBERT SCOTT, retired director of safety and insurance for the Atlantic Coast Line Railroad, Wilmington, N. C., died suddenly November 2.

He had been active in the work of the National Safety Council's Railroad Section ever since the

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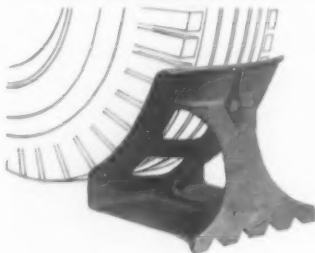
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CASTEEL
CHOCK
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LOADED BY
LIFT TRUCKS
PRACTICALLY INDESTRUCTIBLE**



**—Specify the Best—
—The WB15 Heavy-Duty Wheel Block—**

The wide face area accommodates large tires. The broad flat base gives stability in soft terrain. Five $\frac{3}{4}$ " angular calks, cast in rear of base, hold securely on ice, snow or concrete.

Sturdy brace supports are provided with a cast-in hole for chain or hook connection.

For other sizes and types of Safety Wheel Blocks, send for our Bulletin No. N-57

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ELIMINATES CONTAMINATION

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in DL HANDI-CLEANER guards against infection keeping hands soft and healthy.

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by reducing "clean-up" time. By actual test this dispenser delivers 4 cleanings for a penny.



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DL *First and Finest for Over Twenty Years!*
HANDI-CLEANER...USE WITH OR WITHOUT WATER
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Section's founding in 1915, and served as its general chairman in 1921-22. He and Mrs. Scott attended the 45th National Safety Congress, and at the Railroad session on October 23, just 10 days before his death, he was presented with the Council's highest personal award, the Citation for Distinguished Service to Safety.

He retired from service with the Atlantic Coast Line February 28, 1957, just a few days after his eightieth birthday.

Mr. Scott, dean of railroad safety men, was born in Scotland, February 15, 1877. He entered the service of the Atlantic Coast Line in 1893. Eleven years later he was transferred to the insurance department and two years later he was appointed superintendent of the department.

During World War I, the railroad expanded its program and he was named superintendent of insurance and safety. For several years he was also editor of *Atlantic Coast Line News*. In 1943 he was honored by Atlantic Coast Line for 50 years of service.

Mr. Scott has held numerous offices in the National Safety Council's Railroad Section and in the Safety Section of the Association of American Railroads.

The Exposition

—From page 62

fascinated crowd around it all week had a collection of snakes—rattlers, moccasins, copperheads and coral snakes, also a boa constrictor and other non-venomous snakes. The herpetologist in charge was kept busy answering questions.

Other exhibits featured various items applicable to traffic safety.

Summing up, if it was accident prevention, fire protection, occupational hygiene, plant sanitation and housekeeping, first aid, communication or incentives, you would find representative products.

EXHIBITORS AND PRODUCTS

Here are the exhibitors who made the big show possible and a list of their principal products:

Acme Protective Equipment Co.—Respiratory protective equipment.

Advance Glove Mfg. Co.—Work gloves.

Aetna Casualty & Surety Co.—Safety educational aids and driver training and testing equipment.

Akron Brass Mfg. Co.—Fire hose nozzles and accessories.

Alan Wood Steel Co.—Abrasive rolled steel floor plates.

American Abrasive Metals Co.—Anti-slip flooring, treads, thresholds, and floor coatings.

American Allsafe Co.—Industrial safety equipment.

American Biltrite Rubber Co.—Rubber and neoprene safety shoes.

American Chain and Cable Co.—Wire rope and chain slings and fittings.

American Industrial Safety Equipment Co.—Face shields, goggles, gloves.

American LaFrance Corp.—Fire-fighting equipment.

American Optical Co.—Head, eye and respiratory protective equipment, safety clothing and specialty products.

Ampeco Metal, Inc.—Non-sparking, corrosion-resistant safety tools.

Ansul Chemical Co.—Dry chemical fire protection equipment.

Arcadia Mfg. Co.—Plastic coated gloves and aprons.

Award Incentives, Inc.—Incentive award programs, plaques and trophies.

Ayerst Laboratories—Industrial protective creams.

Ballymore Co.—Rolling stepladders, movable work platforms, mobile access lifts, hydraulic lift work platforms.

Bashlin, W. M., Co.—Linemen's and industrial safety equipment.

Bausch & Lomb Optical Co.—Safety glasses and vision-testing equipment.

Beltone Hearing Aid Co.—Audiometers, hearing aid tests.

Beryllium Corp.—Non-sparking safety tools.

Best, Alfred M., Co.—Safety publications.

Bethlehem Steel Co.—Wire rope slings and accessories.

Biljax, Inc.—Tubular steel rolling and stationary scaffolds, portable steel bleachers.

Bomgardner Mfg. Co.—Emergency stretchers, cots, first-aid equipment, resuscitators, respirators.

—Turn page



AN AMATEUR photographer shoots a professional at the Exposition.

Circle Item No. 67—Reader Service Card

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"THE DOCTOR EXAMINES YOUR HEART"

(16mm sd. b&w, 10 min.)
Produced in collaboration with the Amer. Heart Assoc. to show workers how to "guard" the heart and why periodic heart examination is insurance for general good health as well as heart safety; proves it is as logical to "service" the heart as to service an automobile. No film is more urgent for laborer and executive alike. No organization is long free of heart incidence. **Sale \$60.00**

"HOW TO AVOID MUSCLE STRAIN"

(16mm sd. b&w, 13 min.)
Film illustrates how to prevent injury; how to lift correctly. Includes subject of hernia. Avoidable back and muscle injuries occur on and off the job at enormous cost to industry. Film is endorsed by Amer. Medical Assoc., Nat'l Safety Council, and industry throughout the world. Credited with greatly reducing incidence. **Sale \$60.00**

"THE BILLION DOLLAR MALADY"

(16mm sd. b&w, 16 min.)
Incidence of common cold is reduced by use of this outstanding film. Teaches care and prevention. Pays for itself every showing. Has highest professional and industrial endorsement. Particularly important this time of year. **Sale \$75.00**

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Ask for list of FREE-LOAN Industrial Films

SPANISH SAFETY FILMS

(16mm Sd. B&W)

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| "HOW TO AVOID MUSCLE STRAINS" (Same as English film above.) | Sale | \$85.00 |
| "ACCIDENTS DON'T HAPPEN" Series: (Spanish) | | |
| "FALLS"—6 min. Examples of causes. How to avoid them. Spanish only. | Sale | \$45.00 |
| "HANDLING"—5 min. Nine mistakes in handling. Safe methods. Spanish only. | Sale | \$40.00 |
| "MACHINES"—8 min. Typical carelessness and accidents in handling machinery. Two crucial mistakes in handling the saw. Spanish only. | Sale | \$60.00 |
| "SAFE CLOTHING"—18 min. Importance of proper clothing. Accidents due to improper work clothes. Spanish only. | Sale | \$75.00 |
| "FATAL SECONDS"—18 min. The careful driver who just once takes a chance. Proves that accidents can be avoided; a lesson in caution. Spanish only. | Sale | \$100.00 |
| "CAUSE FOR ALARM"—13 min. Instructs how to fight fire and meet an emergency. An unforgettable lesson in Safety. Spanish only. | Sale | \$100.00 |
| "FOR SAFETY'S SAKE"—15 min. How to use, inspect and care for portable power tools—drills, grinders, saws. Indispensable for safety and care of equipment. Spanish. | Sale | \$100.00 |
| "TIME TO STOP"—20 min. Importance of judging braking distance in driving. Exact figures for emergency stops. Necessity of following rules. Spanish. | Sale | \$100.00 |
| "DAY IN COURT"—25 min. Traffic safety film produced as a public service to reduce accidents. Answers given by a Traffic Court Magistrate. Spanish only. | Sale | \$175.00 |

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The Safety Director of a large Eastern distillery had recommended installation of Carpenter Automatic Emergency Lights. Procrastination was responsible for delaying purchase for several weeks, with the result that a simple blown fuse caught everyone unprepared.

During a night shift, lighting circuits to the Bottling Department went dead, while the machinery, fed by high-voltage lines, kept clanking on. In the resulting panic, women stumbled into the racing machines. Exit stairwells were darkened, too, and falls added to the toll. Only chance prevented loss of life.

Within days, the management installed Carpenter Automatic Lights throughout this plant and eight others.

The tragedy in this instance was the delay after the hazard had been recognized, and proper protection decided upon. . . For just one WATCHMASTER AUTOMATALITE would have prevented the misfortune. Each AUTOMATALITE now stands as a mute yet tangible symbol of the need for immediate protection.

Only "WATCHMASTER" AUTOMATALITES have

EXCLUSIVE • Powerful, sealed-beam floodlights with strong center punch to illuminate long aisles and pin-point exits or critical stations, etc.

EXCLUSIVE • "Hydro-Caps" to prevent water loss from batteries. Requires addition of water only once every year or two. Lowers maintenance costs.

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Bone Dry Shoe Manufacturing Co.—Outdoor footwear.

Boyer-Campbell Co.—Safety equipment for industry, personal protective equipment.

Brady, W. H., Co.—Self-sticking signs and warning stripes.

Breck, John H., Inc.—Skin cleansers, hair and scalp preparations.

Brett-Guard Co.—Transparent plastic saw guards.

Brossard, Lester L., Co.—Industrial traffic mirrors and traffic lane markers.

Browne, Stewart R., Mfg. Co.—Electrical safety equipment, grounding devices, explosion-proof inspection lights and flashlights.

Brunin & Co.—Floor treatments, detergents, disinfectants, insecticides.

Buffalo Fire Appliance Corp.—Portable extinguishers and equipment for fire departments.

Buhrke, R. H., Co.—Occupational safety equipment and products for construction and maintenance.

Bullard, E. D., Co.—Safety equipment for general industrial use.

Cambridge Rubber Co.—Cork and neoprene soles and heels.

Chance, A. B., Co.—Maintenance and construction tools for hot line work.

Charleston Rubber Co.—Gloves, sleeves, aprons and other equipment for linemen and plant workers.



BOOTHS for hearing tests were busy throughout the week.

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Chemical Co.—Skin cleansers, protective creams and lotions.

Chicago Eye Shield Co.—Head and eye protective equipment.

Chrysler Corp.—Safety features in automobile construction.

J. R. Clark Co.—Industrial ladders.

Columbus Glove Manufacturing Co.—Coated gloves and aprons.

Columbus McKinnon Chain Corp.—Alloy steel sling chains.

Cunningham, M. E., Co.—Safety marking tools.

Daisy Mfg. Co.—Educational programs for air rifle shooters.

Davids Gloves, Inc.—Work gloves.

Davis Emergency Equipment Co.—Respiratory protection, combustible gas indicators, general safety and first-aid equipment.

Detex Watchclock Corp.—Watchmen's clocks.

De Walt, Inc.—Woodworking equipment.

Dockson Corp.—Head, eye and respiratory protection.

Dow Chemical Co.—Safety solvents, germicides, insecticides.

Dow Corning Corp.—Goggle cleaning stations and cleaning tissues and shoe preservatives.

Doyle Vacuum Cleaner Co.—Industrial vacuum cleansers, scrubbers and polishers.

Dunn Products—Protective gloves, clothing, aprons and footwear.

Du Pont de Nemours, E. I., & Co.—Flame retardant for fabrics and paper, anti-slip floor waxes, protective creams, neoprene products.

Eagle Mfg. Co.—Safety cans, oilers, oil and gasoline containers.

Edmont Mfg. Co.—Coated fabric gloves.

Elkhart Brass Mfg. Co.—Fire extinguishers, municipal and industrial brass goods.

Elliott Service Co.—Accident prevention displays and publications, conference programs, suggestion systems.

Emerson, J. H., Co.—Resuscitation equipment, non-slip soles and matting.

Fendall Co.—Head and eye protection.

Fibre-Metal Products Co.—Head and eye protection, welders' clothing.

—To page 255

For a More Successful Poster Program



JUMBO POSTER FOR FEB. 1958

The Jumbo poster, issued monthly, is designed for outdoor use and is available to members on annual subscription but is not stocked. Its actual size is 9' 11" by 11' 8".

SAFETY BANNER FOR FEBRUARY, 1958

Here is the attention-getting, monthly cloth banner. Available in two types—indoor and outdoor—both are identical in size (10 feet long by 40 inches high), have the same general message and multi-color design. Indoor type is of sturdy drill with grommets for easy hanging, while the outdoor banner is of extra heavy drill, with wind vents, and has strong stitched-in rope for durability.



POSTER program aids miniaturized on this and the following pages are NEW — shown here for the first time. Those illustrated in one color are actually printed in two or more colors.

Also, be sure to refer to the new 1958 directory section of occupational posters which contains an excellent selection of 756 posters on a greater variety of subjects.



T-1249-B

17x23

This new four color poster is illustrative of the 72 four color posters shown in the 1958 Poster Directory.

Electrotypes of poster miniatures on this page are not available, nor can payroll inserts be supplied.

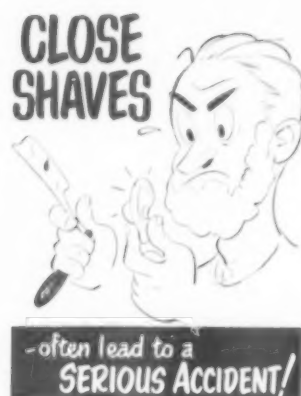
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NATIONAL SAFETY COUNCIL
1082-A 8½x11½



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1105-A 8½x11½



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1232-A 8½x11½



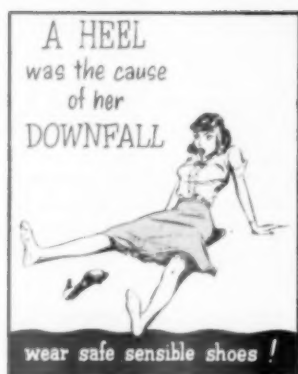
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1193-A 8½x11½



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0977-A

8½x11½

DANGER AREA



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1248-A

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0998-B

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NATIONAL SAFETY COUNCIL

1229-B

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1135-A

8½x11½



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1100-B

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NATIONAL SAFETY COUNCIL

V-1225-A

8½x11½



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NATIONAL SAFETY COUNCIL

V-1227-B

17x23



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NATIONAL SAFETY COUNCIL

V-1226-B

17x23

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Wire from Washington

—From page 14

which provides, in part, that automobiles shall bear a certificate of fitness label, which label would insure that the vehicle had been inspected and found in good working order and in conformity with all advertising matter, and that it had been road-tested and found in good operating condition. Mr. Roberts outlined his sub-

committee's plans as including further study in the human factor in accidents (including use of alcohol, and the subjects of driver training and licensing), vehicle design, medical research, and enforcement.

It is interesting to note how traffic accident statistics are being used in connection with studies of radioactive fallout resulting from the testing of nuclear weapons. In a report submitted to the Atomic Energy Commission, an

Advisory Committee on Biology and Medicine said that such damage as may come from nuclear fallout would be considered large or small depending "on the ethical and emotional makeup of the individual." But, continued the report, "it is a fact, however, that we accept death and maiming through preventable accidents. (Most automobile accidents could be prevented by reducing the speed limit to 10 miles per hour.) We discount the harm by considering the advantages."

K-LENS-M

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For Safe Clear Vision



Cleans and Anti-Fogs All Types of Personal and Protective Eye Wear

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Glass
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Cortland 1, N.Y.

Aviation Safety. The Civil Aeronautics Administration announced that in the fiscal year 1957 (July 1, 1956-June 30, 1957), CAA airport traffic control towers had an increase of 16 per cent activity over the previous year, with a total of 23,780,000 landings or takeoffs. This represented twice the rate of increase over the previous fiscal year. General aviation increased 21 per cent, military operations 14 per cent and air carrier operations 11 per cent.

The Civil Aeronautics Board announced the intention to amend its regulations so as to provide that pilots serving as second in command of flight crews of three or more pilots would be required to undergo the same periodic proficiency checks now required of pilots in command. The announced purpose was to insure an equivalent level of safety during times when the second in command is acting for the pilot in command.

A Federal Court of Appeals ruled that the CAB has the authority to suspend a pilot's airline transport rating after finding him guilty of carelessness in a crash involving nonfatal injuries, even although the CAB did not revoke his rating altogether. The Court said that the law authorized the CAB to make an example of him "in order to deter him and other airline pilots from jeopardizing the safety of travelers by air."

Public Health. The U. S. Department of Agriculture announced that it would provide inspection service about May 1, 1958, under the Poultry Products Inspection Act. (See "Wire," Oct. 1956)

The Atomic Energy Commission has suspended activities directed toward the design and construction of a food irradiation reactor which was being developed for use by the Army Quartermaster Corps in experiments with the preservation of food by radiation. (See "Wire," Oct. 1956) The Defense Department is investigating other means of radiation.

The Supreme Court of the United States upheld the power of the Federal Trade Commission to subpoena the books of insurance companies in an investigation of alleged false and misleading health insurance advertising. (See "Wire," Feb. 1956 and Feb. 1957)

Governmental Operations. The report of the Federal Bureau of Employees' Compensation, for the calendar year 1956 shows that civilian federal work injuries increased 4.2 per cent in 1956 over 1955, and that the frequency rate advanced to 8.0 per million man-hours of exposure, a figure which is 2.6 per cent above 1955. The severity rate also increased, from 552 per million man-hours in 1955 to 568 in 1956.

The total direct costs rose to over \$29 million, an increase of \$3 million over 1955; the increase was due mostly to fatalities. Converted to cost per employee covered in 1956, the total direct cost averaged \$12.00, as compared with \$10.98 in 1955. This is equivalent to 27 cents per \$100 payroll.

All this data on the year 1956 must, of course, be taken in the context of a significant decrease in both frequency and severity rates of civilian federal work injuries during the past decade. (See "Wire," June 1957)

The Post Office Department reported on the safety advantages of painting its fleet red-white-blue, over the old olive drab painting on its motor vehicles. After a pilot test in which each group operated 10 million miles, the figures show that the olive-drab fleet had 849 accidents as contrasted with 622 for the red-white-blue test group. The darker fleet had 50 rear-end ramblings, but only 24 were suffered by the brightly painted group.

Matches Cause Freak Grinding Accident

ACCIDENTS and fires can result from the most unexpected sources and matches can create a basic fire hazard in many industrial locations.

A machine shop employee is grinding a tool bit on a small pedestal grinder. In his left shirt pocket were a pack of cigarettes and a book of matches. The matches were behind the package of cigarettes.

The grinding operations started the normal amount of sparks. Suddenly, the pack of matches in the employee's pocket ignited. Instinctively he brought his left hand up to stamp out the smoldering shirt pocket. He received a minor burn on the left wrist but there were no burns on any other part of his body.

Investigation revealed that normal grinding procedure was being carried out. It is believed that a spark flew from the tool bit into

NEW !!! LINEMAN'S BUCKET "STOWKIT" "Super" and "Special"

Manufactured by RE-MAR PRODUCTS CORPORATION
Elizabeth, New Jersey



Our "Super" and "Special" STOWKITS will pass the most rigid tests of your Safety Engineers.

Every point of manufacture has been carefully planned and all of the heavy Duck, Leather Parts, Manila Rope, etc., are tested before fabrication.

Whether you elect to use the "Super" or the "Special" STOWKIT we guarantee a performance that incorporates:

- (1) FLEXIBILITY: Lighter Weight and Perfect Balance.
- (2) DESIGN: A perfect—Necessary Tool for the Lineman.
- (3) SAFETY: Passes all tests—constructed without any metal parts.
- (4) ECONOMY: Available at low cost for High Efficiency.

We welcome your inquiries and will demonstrate our "STOWKITS" upon request. Write immediately for particulars.

Shipments are made promptly from stock F. O. B. Elizabeth, New Jersey

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Circle Item No. 71—Reader Service Card

his pocket, igniting the matches. Another theory that the spark ignited his shirt was ruled out when investigation revealed no burns on the cigarette pack which was between the matches and the outside portion of the shirt pocket.

"I don't want to scare you, the eight-year-old told his teacher, 'but my daddy says if I don't get better grades, somebody's gonna get spanked.'"

Diary

—From page 35

fast descent, not a safe one. I made the superintendent's office in something close to record time. In 50 seconds more we'd stopped all painting, and in an hour we'd seen the louver hinges cleaned of gumming masses of lacquer and were back in the superintendent's office designing new types of louvers.

This will be good for Lee—I can

go to him and lay out before him the dangers involved in over-confidence.

But there remains the problem of Dan. Justified in his worries, proved right in his anxiety, how can he be helped to avoid the destruction of body and mind that continued fear and worry brings?

He's earned his spurs as a safety man with a major save. But what will save him from an ulcered stomach, a crack up, a cardiac condition in 10 or 20 years?

He's good enough to be a crack safety man, but is he tough enough?



Power failure and sudden darkness bring

PAINFUL INJURY

... but Exide Lightguards* go on automatically when lights go out—prevent sudden darkness. They protect you against the risk of injuries. Plug into your regular outlets. Built-in automatic charger. Batteries last for years. Choose from four models. Send coupon today.



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Exide Industrial Division
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Send details on ☐ portable Exide Lightguards
☐ larger emergency systems

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Circle Item No. 72—Reader Service Card

The

President's Medal

Awards made by the National Safety Council for successful application of artificial respiration

HAROLD HEWITT, assistant personnel manager, Bemis Bros. Bag Co., Peoria, Ill.—electric shock. Certificate of assistance to CLARK E. ALTIG.

GERALD W. FLOWERS, temporary pumper, Sun Oil Co., Channelview, Tex.—gas asphyxiation.

CYRIL HORDERN, security guard, Orenda Engines Limited, Glen Williams, Ont., Canada—drowning.

J. W. HOWARD, field clerk-warehouseman, The Texas Co., Abilene, Tex.—electric shock.

H. F. (BUCK) PARKER, unit operator, J. P. (Bum) Gibbons, Inc., Andrews, Tex.—gas asphyxiation. Certificate of assistance to LEROY PAYNE.

HAROLD EUGENE MALONE, lineman, Peninsular Telephone Co., St. Petersburg, Fla.—electric shock.

C. L. BURKE, facilityman, Northwestern Bell Telephone Co., Marion, Iowa—drowning.

ROBERT H. CHILDS, administrative assistant, Ontario Hydro Electric Commission, Willowdale, Ont., Canada—drowning.

LUTHER E. LAIR, lineman first class, Kentucky Utilities Co.,

Campbellsville, Ky.—electric shock.

LUTHER B. COLBAUGH, forestry aid (general), U.S. Forest Service, Greeneville, Tex.—gas asphyxiation. Certificate of assistance to JOHN ADAIR.

Bakers Association and NSC Sponsor 1958 Contest

During 1958 the Bakers' Division of the Food Section Annual Safety Contest will be co-sponsored by the American Bakers Association and the Council. It is planned that this will be a continuing effort in future years through the close cooperative effort of the Bakers Division of the Food Section and the Safety Accident Prevention Committee of the ABA.

Recent action of the American Bakers Association Board created a Safety Accident Prevention Committee under the chairmanship of Frank J. Wirken, Safety Director of Interstate Bakeries Corp., Kansas City, Mo. Other members of the committee include:

Edward Z. Banka, Safety Engineer, National Biscuit Co., New York; L. D. Feuchtenberger, Jr., General Manager, Betsy Ross Bakeries, Inc., Bluefield, W. Va.; D. H. Mackaman, Campbell-Taggart Associated Bakeries, Inc., Dallas, Tex.; Walter C. Mahlstedt, safety engineer, Continental Baking Co., Rye, N. Y.; Cesar Medina, President, Holsum Bakers, Inc., Tampa, Fla.; Thomas B. Schmidt, President, Capital Bakers, Inc., Harrisburg, Pa.; Harold J. Stroehmann, Jr., president, Stroehmann Brothers Co., Williamsport, Pa.; E. R. Zimmerman, director of safety, American Bakeries Co., Chicago.

Two of the ABA Committee include members of the Executive Committee of the Food Section, National Safety Council. Mr. Mahlstedt is chairman, and Mr. Banka is vice-chairman of the Bakers Division. They are further assisted in this program by the division secretary, Arthur E. Marvin, Safety Engineer for Sunshine Biscuits, Inc., Long Island City, New York.

Seventy five units are currently

participating in the Bakers Contest. It is anticipated that several hundred units will participate during the first year of the combined effort. The committee reports a long term objective of enrolling over one thousand units in this cooperative contest. The enlisting of additional organizations and the extension of safety participation should assist in reducing the Bakers frequency from the 1956 figure of 10.26.

Further cooperative effort is planned in the development and distribution of pertinent safety materials to the bakers industry. The data sheet for bakers is being revised and other detail sheets, safety instruction cards and pertinent safety articles are scheduled by both the Accident Prevention Safety Committee, American Bakers Association and the Bakers Division of the Food Section, N.S.C.

Circle Item No. 73—Reader Service Card

SAFETY

INCREASES WHERE WARNING SIGNALS ALERT

CAUTION

Where flashing Red lights are needed over Doorways, near Steep Stairs, on Operating Machinery, on Fork Lifts and all moving vehicles.

YOU CAN RELY ON

KAY LAB FLASHERS

TO DO THE JOB.

Works on 6 or 12 volt battery, or on 110 volt with a transformer. Used for many years by Police Cars, Ambulances, Tow Trucks, Fire Departments, etc. Thoroughly tested and proved long-lived. Works on Sound Devices as well as for flashing lights.

Recommended by leading Safety Engineers. Praised by thousands. Easily installed. Write for instructions and literature.

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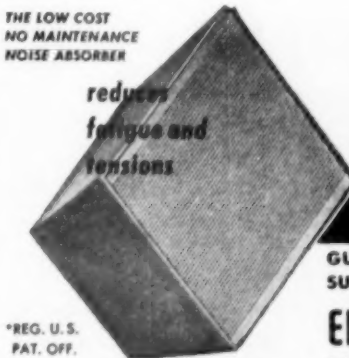
LIST PRICES:

\$3.00 Each.

Write for discounts, specifying quantities required.

THE LOW COST
NO MAINTENANCE
NOISE ABSORBER

reduces
fatigue and
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PAT. OFF.

QUIET FACTORY NOISE with SONOSORBER*

GUARANTEED RESULTS! FREE ENGINEERING SURVEY, ANALYSIS and ESTIMATES. Write Today.

ELOF HANSSON, INC. ACOUSTICAL DEPT. NS 12-7
711 THIRD AVENUE, NEW YORK 17, N. Y.

Circle Item No. 74—Reader Service Card

Standards to Measure Traffic Accidents

EVERY ORGANIZATION interested in developing a uniform, nationally recognized method of measuring traffic accidents of commercially operated motor vehicles has been invited by the American Standards Association to participate in the formulation of such a standard.

This project, sponsored by the National Safety Council, will get

under way as soon as the organizations invited have formed a sectional committee under ASA procedure to do the necessary work.

The need for such standard was brought to the attention of ASA by the Commercial Vehicle Section of the National Safety Council. At present, different methods are used by a number of organizations for compiling and recording accident statistics for

fleets of commercial motor vehicles. This makes it difficult or impossible to compare accident statistics coming from different sources and to distribute safety awards justly.

Representatives of the following organizations and government departments were present at the meeting which approved the project:

American Petroleum Institute, American Society of Civil Engineers, American Society of Safety Engineers, American Transit Association, Association of Casualty and Surety Companies, Automotive Crash Injury Research, Automotive Safety Foundation, Interstate Commerce Commission, Markel Service, Inc., National Highway Users Conference, National Safety Council, Public Service Coordinated Transport, U.S. Bureau of Public Roads, U.S. Navy, U.S. Post Office Department, and the U.S. Public Health Service.

The conference agreed on the following scope of the standards project:

"To formulate standard definitions of vehicles, fleets, exposure and accidents which can be used to determine methods of recording and measuring motor vehicle accident experience of commercially operated fleets."

The representative of the American Statistical Society said there was a need for a national standard for traffic accident similar to the one existing for industrial injury—Z16.1-1954, the American Standard Method of Recording and Measuring Work Injury Experience.

As a starting point for the formulation of a new national standard, the National Safety Council submitted its contest rules for the 1956-1957 National Fleet Safety Contest, and the American Petroleum Institute submitted its "Method of Compiling Motor Vehicle Accident Rates in the Petroleum Industry—1956."

Proud Restaurant Owner: "And this coffee was especially imported from Brazil."

Customer: "Imagine that, and it's still slightly warm!"

Circle Item No. 75—Reader Service Card

DESIGNED TO FIT THE *finest* DECOR

This smart, colorful setting of American-Olean Tile shows how well a Halsey Taylor cooler can adapt itself to modern treatments.

Whether it's a cooler or fountain, Halsey Taylor streamline styling is an important advantage to you!

The Halsey W. Taylor Co.,
Warren, O.



Drinking Water Niche, Quakertown, Pa., High School
Architects, H. F. Everts and Associates
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Free sample when requested
on company stationery.

CUT DOWN NOISE WITH THE S M R EARSTOPPER

Soft, comfortable, resilient, the SMR EAR STOPPER adjusts itself to all shapes, turns and movements of the ear canal. Tends to anchor itself in the ear. Has a long life and is reasonable in cost. Furnished in a plastic case. Forty-five cents per set in gross lots.

SURGICAL MECHANICAL
RESEARCH INC
1985 Beverly Blvd., L.A. 57, Calif



Circle Item No. 76—Reader Service Card

The Exposition

—From page 246

Fine Organics, Inc.—Solvents of high flash point and low toxicity.

Ford Motor Co.—Safety features in automobile construction.

Frommelt Industries—Portable welding shields and protective heat cloth.

Fyr-Fyter Co.—Fire extinguishers, resuscitators and respirators.

General Detroit Corp.—Fire extinguishing apparatus.

Glendale Optical Co.—Face shields and goggles.

Globe Co., Grip-Strut Div.—Grating for flooring and stair treads.

Grinnell Co.—Fixed pipe fire protection systems.

Gro-Cord Rubber Co.—Rubber and neoprene cord and cork soles and heels.

Haws Drinking Faucet Co.—Emergency eye wash fountains, emergency showers and goggles wash fountains.

Hild Floor Machine Co.—Floor polishers, scrubbers and vacuum cleaners, regular and explosion-proof.

Hygiene Research, Inc.—Protective ointments, antifogging cloth for goggles, welding masks, windshields, etc.

Hy-Test Shoes Div., International Shoe Co.—Safety footwear for general industrial use; conductive and special types for atomic use.

Industrial Gloves Co.—Work gloves and protective garments.

Institute of Industrial Launderers—Industrial launderers and cleaners.

Insto-Gas Corp.—Torches and furnaces.

Interstate Rubber Products Corp.—Trafficones for traffic control.

Iron Age Div., H. Childs Co.—Leather and rubber safety footwear.

Jackson Products, Div. Air Reduction Co.—Welding equipment, head and eye protection.

Jomac, Inc.—Work gloves, sleeves, hand guards, protective clothing.

Jones & Co.—Full-vision goggles.

Jones & Laughlin Steel Corp.—Wire rope, slings and fittings.

Junkin Safety Appliance Co.—Power press guards, safety shields, stretchers.

Justrite Mfg. Co.—Safety cans for flammable liquids, waste cans, electric lanterns, flashlights, fire extinguishers.

Karel First Aid Supply Co.—First aid and hospital supplies and equipment.

Kelley-Mahorney Co.—Anti-skid floor enamel, fire-resistant paint.

Keystone View Co.—Vision tests, projectors.

Kidde, Walter, & Co.—Fire detecting and extinguishing equipment, ultrasonic burglar alarm.

Kimball Safety Products Co.—Personal protective equipment.

Klein, Mathias, & Sons—Linemen's safety equipment and tools.

Knapp Bros. Shoe Manufacturing Corp.—Safety shoes.

Kunz, J., Glove Co.—Linemen's, bridgemen's and welders' gloves.

Leeder Manufacturing Co.—Dry chemical Extinguishers.

Legge, Walter G., Co.—Floor maintenance materials, conductive coatings, static eliminators.

Lehigh Safety Shoe Co.—Leather and rubber safety footwear.

Lightfoot Schultz Co.—Powdered, liquid, bar and waterless skin cleansers.

Logan Emergency Showers—Emergency showers, eye-wash fountains.

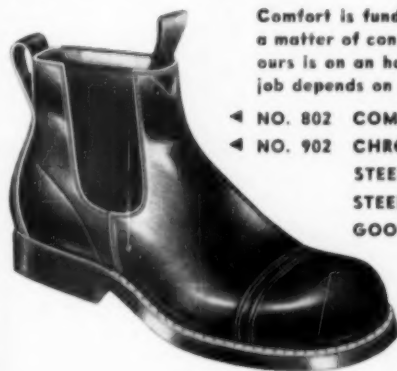
Lowery Bros.—Wire-rope splicing service.

Maico Co.—Audiometers for hearing tests.

—To page 269

Circle Item No. 121—Reader Service Card

YOU CAN'T "KEEP ON YOUR TOES" IF YOU DON'T KEEP YOUR TOES ON!



Comfort is fundamental in foot safety! Safety is a matter of conscience with us. Every employee of ours is on an hourly rate basis! Every employee's job depends on quality not quantity!

- ◀ NO. 802 COMPOSITION CORK SOLE
- ◀ NO. 902 CHROME (GREEN) LEATHER SOLE
- STEEL SAFETY BOX TOE
- STEEL ARCH SUPPORT
- GOODYEAR WELT CONSTRUCTION



COMPOSITION CORK SOLE NO. 200 ▶

CHROME (GREEN) LEATHER SOLE NO. 702 ▶

PLAIN SOFT TOE

STEEL ARCH SUPPORT

GOODYEAR WELT CONSTRUCTION

**HARRY J. WOLF
SHOE CO.**

SHEBOYGAN, WISCONSIN

BUILDING SAFETY SHOES NEARLY FORTY YEARS



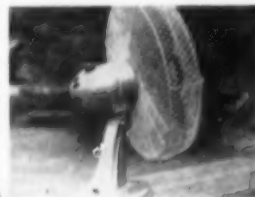
UNPACKING for the big show—Sunday morning in the Exhibit Hall.



GUARDS THE FRONT

**GUARD
YOUR
FANS
NOW**
Protect Workers
From Injury
with

SAF-T-FAN-GARD



GUARDS THE REAR

Designed for factories and institutions to protect personnel from bodily injury. This fan guard prevents hand, arm and head injuries. Made of strongly woven cotton mesh fabric, with one-quarter inch openings. It is washable, mildew proof, non static, and won't interfere with the normal flow of air. Cover protects back and sides of fan as well as the front.

Immediate delivery. Write to

ROCHESTER SAFETY EQUIPMENT COMPANY, INC.

83 - 85 HOWELL STREET

ROCHESTER 7, N. Y.

Circle Item No. 78—Reader Service Card

The Year Ahead

—From page 50

signed "Safety Surf" to afford protection from falls to hard surfaces. The interlocking rubber blocks provide covering in multiples of two feet in any direction.

"Mobile Unit" is a floor absorbent dispenser just introduced by Oil Dri Corporation of America. The automatic dispenser saves

time, labor, and material and is easy to use.

Plant cafeterias will find Vacuum Can Company's new stainless steel, pedal-operated sterilizer valuable in food preparation. It is useful wherever refuse cans, mixing kettles, stock pans, large kitchen utensils and insulated containers must be sterilized.

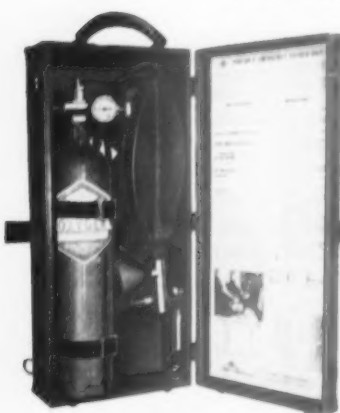
Justrite Manufacturing has designed a safety bench can with a portable basket for cleaning small

parts. Wire handles keep hands away from the cleaning solution and the full size cover is strongly hinged to permit prompt closing.

The first silencer developed and designed to prevent the transmission of noise through return air vents without impeding the passage of air has just been introduced by Industrial Acoustics. "Quiet-Vent" features functional construction to fit snugly inside normal walls. The silencers feature an attenuation of 40 decibels or more.

The "Wind-O-Washer" has been specifically designed by Economy Engineering for buildings with sealed windows and curtain-wall architecture. The electrically operated scaffolding rises, lowers and moves horizontally along the side of a building through push-button control. All electrical equipment is fully enclosed and hoisting cables are of galvanized steel with a large safety factor.

Circle Item No. 79—Reader Service Card



only **OHIO** offers
all 4 of these features

- 1 Non-rebreathing Valve
- 2 Pressure-limiting Valve
- 3 Special exhalation porting
- 4 Your choice of models with or without carrying case.

Complete with carrying case (less cylinder) . . . \$70.00
Complete (less carrying case and cylinder) . . . \$50.00

F. O. B. Madison, Wis. — in Continental U. S. A.

Ohio Chemical
OHIO CHEMICAL & SURGICAL EQUIPMENT CO.
MADISON 10, WISCONSIN

Ohio Chemical Pacific Company, Berkeley 10, Calif.
Ohio Chemical Canada Limited, Toronto 2, Ontario
Airco Company International, New York 17, N. Y.
Cia. Cubana de Oxigeno, Havana
(All subsidiaries or divisions of
Air Reduction Company, Incorporated).

Portable **OXYGEN** and **RESUSCITATION UNIT**

This efficient, easy-to-use outfit is adaptable for either direct-flow oxygen therapy or for emergency resuscitation.

A built-in pressure relief valve limits the positive pressure to the patient to 20 mm Hg.

Employs standard "D" medical oxygen cylinders, available throughout the United States. Check your classified directory under "Oxygen" for local source.

Order directly from Ohio Chemical, Madison, Wis., from any of our 32 branch offices, or from over 500 Ohio dealers. Please write Dept. NSN-12 for Leaflet 4712.

Personal Protective Equipment

When it comes to selection of protective equipment for any job, in 1958 the safety engineer will have a larger selection than he has ever enjoyed. Specialization seems to be the keynote—specialized equipment for specialized jobs. For instance, "Guest Goggles"—eye protection for plant visitors—have just been developed by Sellstrom. Attractive styling and unusual lightness are special features.

Industrial Products Company also has announced a visitor goggle that fits all faces. Because of the low cost, they can be given away to the plant guest.

A unique innovation in gloves is the "Twin Palm" two thumb, hotmill glove. Twice the wear at half the cost, is the way the manufacturer, David's Gloves, puts it. When the heavy nap, cushioned glove begins to wear, just reverse it—there's a thumb on the other side!

Another glove "first" by Riegel Textile: safety slogans printed on work gloves. An everpresent safety reminder is no further away from the worker than his hands. The slogans can be printed on all the glove lines, including

**SAVING FINGERS and EQUIPMENT
IS OUR BUSINESS!**

FOR 10 YEARS WE HAVE SUPPLIED INDUSTRY
WITH THE MOST COMPLETE LINE OF ALUMINUM
SAFETY PLIERS AND TONGS AVAILABLE.

We design and make **SPECIALS** for your needs.

ASK FOR OUR NEW CATALOG NO. 1056

OSBORN Manufacturing Corp.

P.O. BOX 167 WARSAW, INDIANA

Circle Item No. 80—Reader Service Card

the new non-skid fabric "Mighty Grip" work gloves.

"Mesh Gard" glove inserts designed by **Safety Clothing & Equipment** will help prevent tendon cuts and hand lacerations in the sheet metal industry. The inserts incorporate a fine, flexible steel mesh sewn into an expandable glove.

Jomac has just introduced the "North PVC" abrasion-resistant gloves, reported to resist virtually all chemicals and solvents including acids, alkalis, fats, greases, oils, petroleum products, alcohols and waxes. The gloves are extra flexible. **Jomac** has also introduced PVC-impregnated clothing and aprons that combine light weight and flexibility with chemical and abrasion resistance. The clothing is made with a fabric base coated on both sides with a specially formulated plastic which, is claimed, will resist virtually all chemicals and solvents.

For body protection, several valuable protective clothing additions have been announced. **Wheeler Protective Apparel** has come out with "Greenwear" acid and heat resistant clothing. The distinctive green material is available in coats, pants, coveralls, helmets, aprons and other forms. The vinyl-coated fiberglass also repels light molten splash.

John E. Dorsey has developed "Life Guard" neoprene-nylon waterproof clothing in high visibility yellow. The suits are rugged and offer resistance to water, oil, solvents, mildew and acid.

For workers exposed to battery acids or other corrosives, **Dynel** and **Orlon** garments offered by **Milburn** will give protection. "Ply Garb" synthetic garments are sewn with chemically resistant thread and double needle lock stitched seams.

Robin W. Adair recently introduced **Raco Dacron** clothing to be used for lint-free electronic conditions and acid and severe chemical operations. The fabric is Zelan-treated which prevents a quick bleeding of acid and also gives a high polish to the cloth for lint conditions.

100% **Du Pont Dacron** acid resistant work clothes are being manufactured by **Worklon**. The

lightweight blue or grey shirts, pants, coveralls and laboratory coats resist damage by acids and corrosive chemicals. Another group of acid-resistant clothes announced by **Worklon** is made of 100% **Union Carbide Dynel**. The clothing provides protection and added comfort, the manufacturer states.

Singer Glove has developed a new plastic apron that is unusually soft and flexible. Fire

retardant, it will withstand temperatures to 300 F. and won't crack, peel or deteriorate when subjected to -35 F. The apron resists oil, grease and acid.

Although eye safety begins with protective eyewear, workers in industry need a second safeguard — heavy duty spectacle cases. **Opticase** has a line of cases designed to meet general requirements and all cases have either a belt loop or pocket clip. This

Circle Item No. 81—Reader Service Card

A NEW LOOK
AT WELDING
PROTECTION



NOW!
LOW COST
SPARK-FLASH PROTECTION
WITH
Spa-Fla®

Spa-Fla is the modern, low cost way to protect personnel and property from sparks, splash, torch, hot chips, and flying abrasive particles. Provides "on-the-spot" protection . . . cuts down time on welding repair jobs in production areas. Can not be replaced in your own shop at double the price!

Standard models made from UL Approved yellow safety fabric. Other fabrics available include **RAY-TEX** aluminum vinyl for radiant heat applications, **TUF-TEX** heavy-duty brown vinyl, and **WELD-TEX** neoprene-coated yellow glass fabric.

TRY THESE OTHER PROTECTIVE PRODUCTS

Frommelt also designs and manufactures a complete line of other safety products including welding curtains, protective covers, asbestos heat curtains, and aluminum-coated **RAY-TEX** welding blankets, radiant heat curtains, fire and insulating blankets, and portable room partitions.

- Durable, heavy weight cover with welded galvanized wire insert.
- UL approved fire, water, mildew resistant finish.
- Rolls up for easy portability from job to job.
- Sets up anywhere . . . stands alone.
- Forms in any position around job.



WRITE FOR FREE CATALOG
Fabric samples available on request.

FROMMELT INDUSTRIES
DUBUQUE, IOWA
A Name to Remember For Approved Safety Products.

NOW YOU CAN TELL
Quickly and Reliably



if your employee is ill rather than suffering from a hangover.

Stop accidents by adding to your present procedure a simple accident must for determining intoxication.

THE HARGER DRUNKOMETER

used nationally in industry, is the oldest and most widely used of the breath methods.

Write today for information and list of successful users. N-312



STEPHENON CORPORATION
RED BANK NEW JERSEY

Circle Item No. 82—Reader Service Card

feature prevents the cases and glasses from being dropped on the floor.

Style, combined with greater strength, are plus features of **United States Safety Service** in new metal safety spectacle frames. The frames, rugged and masculine-looking, are available with side shields if desired.

Smart styling, together with practical on-the-job utility, are the features of the new plastic

and metal frame safety glasses introduced by **Chicago Eye Shield**. The new open frame reportedly reduces safety equipment costs by providing a durable, long wearing frame in which lenses can easily be replaced.

Welsh Manufacturing has developed the "Cyclops" welders' eye shield. Standard filter and standard CR-39 shatter-proof cover plates provide protection and the pliable, light, one piece

frame fits to the contour of the face.

Reece Wooden Sole Shoe has come up with a strap-on wooden sole with a corrugated metal toe guard. The one hinge shoe protects in hazardous hot spots. The metal guard extends back and over the toes and is high enough to fit over any regular safety shoe.

Plasco Safety Products now offers plastic-coated aircraft shoe covers which prevent slipping. The covers are designed to provide for many hours of wear.

For static drainage from the body to conductive floors, **Walter Legge** now has available "Leg-stat." Worn under the arch of the shoe, the device is in constant contact with the floor. It is secured to the shoe by an elasticized band which fits around the vamp of the shoe. Skin contact is made by a lightweight metal plate worn in a garter assembly on the outer side of the leg.

Iron Age "Sta-Dri 8" steel toe safety boot offers new weather-proofing qualities. The boot is insulated against freezing temperatures and the upper leather is Sylflex-tanned to prevent water penetration.

A combination emergency shower, decontamination shower, and eye-nose-mouth wash unit for protection against fire, acids, caustics, chemicals, radiological, bacteriological, and biological hazards has been announced by **Logan Emergency Showers**. The unit is designed for use at both inside or outside installations.

Surgical Mechanical Research had added new sizes to their line of ear stoppers. The stoppers protect the hearing of industrial workers. The new sizes are for the unusual sized ear canal.

Plant Protection

Fire is a billion dollar problem. Equipment manufacturers have come up with several new products that provide greater industry protection against the fire hazard. There are also a number of new products that answer needs in other phases of plant protection.

Safety First Products has a new portable, pressurized dry chemical fire extinguisher. The U. L.

Circle Item No. 83—Reader Service Card

Still Supple after 400° F.



Specify...

WELDTAN

HEAT-RESISTANT LEATHER For Your Work Gloves

WELDTAN leather gives added SAFETY! Weldtan is super-chrome tanned cowhide split leather. It remains soft and pliable even after exposure to 400° F.

WELDTAN leather is easier to work in! Weldtan has a supple softness that adjusts to every movement of the hand. After being subjected to heat, it has 22.6% less shrinkage than horse split leather.

WELDTAN leather lessens glove costs! Weldtan has 2½ times the abrasion resistance of horse split leather. You have less frequent replacement costs than with any other type of leather.



General Split Corporation

World's Largest Producer of Glove Leather Splits
730 W. Virginia St. • Milwaukee 4, Wisconsin

SAFETY WHEEL CHOCKS



Patented wheel chocks prevent movement of railroad cars in one or both directions. Units cannot become unseated. Each time a car is spotted, it can be blocked safely with wheel chocks, eliminating both the hazard and the loss of time consumed in searching for a suitable blocking device.

Available
in
5
Styles

THE ALDON CO.

DEPT. 1157

3338 RAVENSWOOD AVE.
CHICAGO 13, ILL.

Circle Item No. 84—Reader Service Card

approved "Safe-T-Meter" is authorized for marine installations where Class B (flammable liquid) and Class C (electrical) fire hazards exist.

A 2-A, 1-B rating has been given by U. L. to the **American-LaFrance** 2½ gallon air-pressurized, anti-freeze extinguisher. The unit is pressurized through the nozzle so there are no protruding parts that can be tampered with or become a source of leakage.

Walter Kidde has U. S. Coast Guard approval on the pressure-operated, 5-pound dry chemical portable fire extinguisher. Also approved are cartridge-operated 20 and 30 pound models that are especially suitable for protection of shore hazard areas like fuel docks. The nozzle of the new unit discharges a cloud-like pattern for extinguishing Class B (Liquid) and Class C (electrical) fires.

100% pure asbestos is available in its natural blue color in a **Singer Glove** product that is said to offer higher resistance to fire and heat and possesses greater strength and resistance to acids and caustics. The asbestos adds extra abrasive strength to welding blankets and curtains.

A newly-introduced tank level alarm signals capacity level and avoids dangerous spillage in liquid handling operations. The non-electric and non-pneumatic alarm is manufactured by **Falcon Alarm** and is reportedly safe for all types of liquid handling applications throughout the petroleum, chemical and transportation industries.

Portable communication equipment can play an important part in the event of plant disaster. **Antrex** has several new developments in this field. The "Mighty Voice" power megaphone has a ¼ mile range, utilizes flashlight batteries, is shock resistant, weatherproof and weighs only six pounds. The "Redcap" and "Mobil Voice" are other disaster control communication devices offered by the company.

New emergency lighting units have been announced by **Clean Sweep**. "Surelite" provides illumination instantaneously if disaster causes a power failure. Model DB is a standby light with two 800 cp floodlights, and Model

DF is a portable lamp only. It has one 800 CP floodlight and a 40,000 cp spot.

Electric Cord announces emergency "Light Warden" units, equipped with lead calcium batteries which provide safe, dependable and economical emergency lighting protection. Charging rates are maintained automatically because there are no manually operated switches or timers.

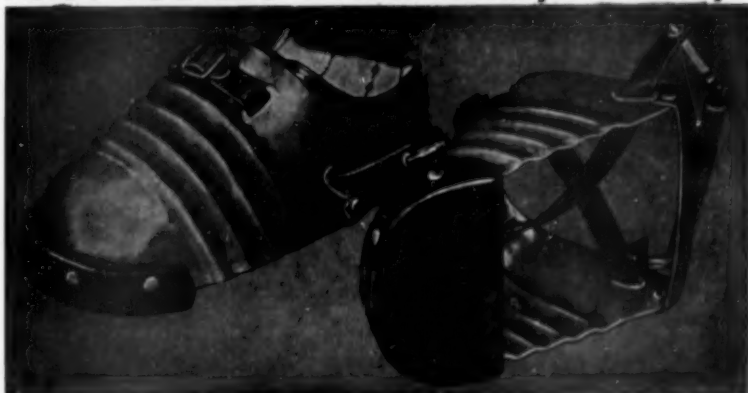
A new industrial hazard mark-

ing roll tape is now available through **Westline Products Division**. The tape can be applied to any clean surface and eliminates painting and stenciling. The tape is yellow with black stripes.

An AC-DC flasher made by **Macchi** has almost unlimited industrial uses where flashing lights or intermittent sound warnings are a safety factor to alert and warn of dangerous areas. If the Kay-Lab "Stop-It" safety flasher

Circle Item No. 85—Reader Service Card

FOOT-TOE-LEG Protection by "Sankey"



"SANKEY" IMPROVED FOOT GUARD

The metal shield (above) is designed to furnish a maximum amount of protection to the entire front of the foot—not merely the toes alone, but also to the instep against hazards from falling, rolling or flying objects, or from accidental tool blows.

- Absolute freedom of leg motion, utmost protection and comfort come with the leg-contour shaped "Sankey" fibre shin guard (right).
- Fibre knee-shin guard (right) provides flexible knee movement on jobs with both knee and shin hazards.



For more information write today

ELLWOOD SAFETY APPLIANCE CO.

225 SIXTH ST.,—NSC ELLWOOD CITY, PA.

Weathertite
BAKED ENAMEL

SIGNS

STANDARD REGULATION
SIGNS OF ALL KINDS FOR
SAFETY AND EFFICIENCY



PRAIRIE STATE PRODUCTS CO.

3822 LAWRENCE AVE.
CHICAGO 25, ILL.

should fail, warning lights burn steadily or the warning device sounds constantly.

Irus Fluid 902, Shell Oil's new water based hydraulic fluid is fire resistant even when exposed to molten magnesium. In tests with the metal, there was no flashback, fire or explosion. The product may be safely used around machines die casting magnesium as well as aluminum and zinc.

Specifically designed to over-

come the hazards of both toxic gases and arc flashes occurring during welding, Engwald welding booths feature high velocity suction and durable steel side extensions. Connected singly or in a series bank to one main truck line and a suitable blower, the booths help to increase production efficiency.

A new type structural plastic panel expected to last over three times as long as standard corru-

gated metal panels in corrosive atmospheres has been developed by the Resolite. The "Metal Grey" panels are a formulation of polyester resin, fiberglass-reinforced, that is highly resistant to corrosion.

A safety drop cord for use in electrically hazardous locations such as tanks and manholes, is available from Sittler. The cord provides a 12-v., 100-w. outlet from the line voltage and is designed to eliminate hazards of electrical shock.

A mine warning system designed by Reed Engineering is a self-injecting stench warning system. It is non-flammable and the disposable cartridge contains 100 grams of ethyl mercaptan purified, and 600 grams of Freon 22 which renders the mixture non-explosive.

A new hand-operated, self-starting siphon-pump for safe handling of concentrated liquids has been announced by General Scientific Equipment. The 7 ft. long Siphon pump permits operator safety and speedy transfer of dangerous liquids.

Safety Tools and Guards

Manufacturers have reported several innovations in safety tools and accessories. Emphasis is placed on making equipment for the job as safe as possible in an effort to reduce worker injuries resulting from the use of faulty and unsafe equipment.

Stanley Works have come out with rim tempered safety ballpeen hammers. A new method of heat treatment reduces face chipping and spawling. The hammers are available in several weights and have drop-forged heads, hardened and tempered on the faces and peens.

"Niptongs" offer protection from heat and dropping danger to chemical laboratories and shops. The Danow-Williams product won't let go until intentionally released. They are available in 12-in. and 24-in. lengths and may be used for carrying small parts or heat treated materials.

Brett Guard Company safety guard for jointers, called the "Vu-Jointer," offers protection from rotating blades along with full visibility. The shatter-resistant

Circle Item No. 87—Reader Service Card

SUDDEN DEATH...

OR SERIOUS INJURY NEED NEVER HAPPEN!



Eliminate traffic accidents at blind corners inside and outside your plant—Also at loading platforms!



Write for Folder and Prices or see your local Safety Distributor.

FRED SILVER & Company
Mfgs. of Specialty Mirrors for Industrial Use
92 Lock Street Newark 3, N. J.

TRAFFIC SAFETY MIRROR

Traffic Safety Mirrors are available in Convex or Flat glass . . . Mirrors are easily installed and adjustable.

ROUND CONVEX MIRROR SIZES

13" • 18" • 26"

FLAT RECTANGLE MIRROR SIZES

6" x 14" 14" x 18"

ATTENTION: SAFETY DISTRIBUTORS



DRI-RITE WATER, OIL AND GREASE ABSORBENTS

Dries and cleans floors—Absorbs water, oil and grease—Eliminates scrubbing. Prevents slipping accidents.

Dri-Rite quality absorbents have been proven in use by large and small industrial plants for many years.

Write for Information on Our Exclusive Distributor Plan

The DRI-RITE COMPANY
100 W. Chicago Ave., Chicago 10, Ill.

Circle Item No. 88—Reader Service Card

shield has a steady, vertical holding pressure and is adaptable to any conventional jointer with a 4-in. to 12-in. blade size.

A versatile safety tool is the **Striker Company** safety saw. It cuts wood, plastics, plaster, rubber, textiles and soft metals by oscillation rather than rotation. This factor is said to make the saw safer to handle, as superficial contact with skin and clothing will not cause damage. There is also little danger from flying chips or broken blades.

R. E. Petersen has developed a shaper hold-down. By application of individual units: (1) holding down and (2) holding in, an even and constant coil spring pressure is applied at four points against the material at both in-feed and out-feed. Shaper operation ordinarily is from right to left hand, but the pressure blades can instantly be reversed to obtain the left to right hand operation.

Custanite announces the "Ratex Instant Speed Variator." It is designed for drill presses, machine tools, power and feed controls, and similar equipment. Machine speeds can be changed without stopping the motor. The variator aids in operator safety because there is no manual changing or adjusting of "V" belts.

While not exactly a safety tool, **Federal Sign and Signal** has developed a gravity stabilized swivel bracket for its emergency warning lights for cinder, salt and dump trucks with raised bodies. The device features a swinging, counter-balanced metal weight which prevents the light from tilting regardless of the angle of the truck or body.

Materials Handling

The movement of material—safely—occupies much of every safety man's time. Manufacturers have introduced a number of new products, and modifications in existing products, that can make material handling safer and easier. Notable are new and improved fork trucks, wire rope, slings and specialized devices.

MacWhyte has developed new Nylon-coated and plastic-coated control cables. They are made from Hi-Fatigue PREformed Galvanized Aircraft Steel Cable

and withstand corrosion and are safer and easier to handle than uncovered cables.

A new, improved handle design for **Gripper** woven wire slings that is thinner and lighter has been announced by **Cambridge Wire Cloth Company**. The handle gives the sling better gripping action, and information forged into the handle provides positive identification as to the size and capacity of the sling.

A major change in the handling of extremely long loads in narrow


aisles has been made possible by the **Raymond Corp.** with their introduction of a four-directional fork truck. The truck can travel forward, backward, and sideways to the right and left. This versatility is obtained by a special arrangement of the load wheels.

Automatic Transportation has designed a fork lift truck without a mast that will lift 10 feet. The truck—the "Elbo-lift"—has a lifting capacity of 12- to 20,000 pounds and offers increased visibility, driver protection, power

Circle Item No. 89—Reader Service Card


Creators and Designers of

SAFETY EMBLEMS, PLAQUES AND AWARDS



WORLD FAMOUS 1933 SERIES IN OVER 40 TITLES ONLY ONE PRICE \$10.50 DOZEN PLUS F.E.T.





SAFE DRIVER PLAQUE

Two Tone Jewelers Bronze Etching on Genuine Walnut Shield. 7 1/2" x 7 1/2"

SD-3 SAFE DRIVER \$6.50
SD-3P PLAIN RIBBON \$6.50

Emblems Made to Order for Loyal Service—No Accident Awards and Safe Driver Contests

Write for FREE 36-page Catalog

WILLIAMS JEWELRY & MFG. CO.

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SILVERSMITHS BUILDING — Central 6-5018

This is it! MAKE QUIET AREAS AT LOW COST with E. H. Noise Reduction Panels



E. H. Panels are 4 x 8' for easy building.

Here is a real contribution to industry's need for low cost, sound-proof and sound absorptive noise barriers. Can be cut in the field to any size and shape! Complete with erection members, soundproof doors and bucks. Write today for complete literature to Dept. 10D.

ELOF HANSSON, INC.

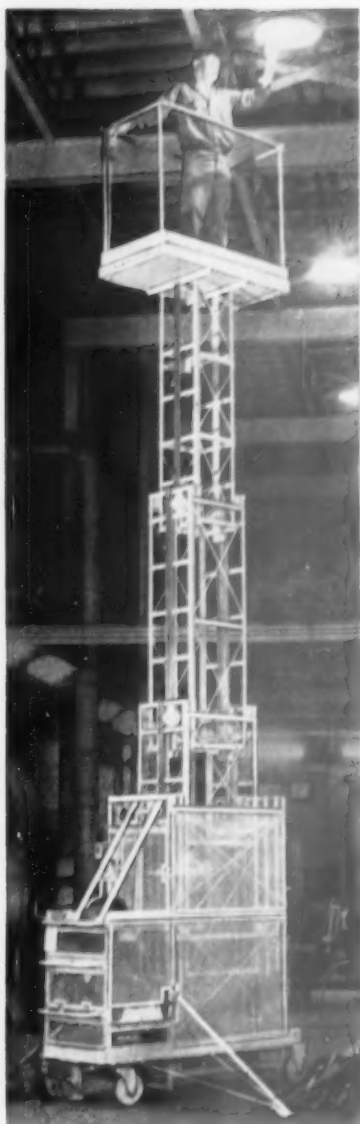
Acoustical Division

711 Third Avenue, New York 17, N. Y.



Enclose noisy machinery

Circle Item No. 90—Reader Service Card



**The man
who feels safe
works better
on overhead
maintenance**

Safety is our first consideration in building Hi-Reach Telescopes. Model LB (illustrated), push-button control on platform. Four heights 20 ft. to 35 ft. (all models lower to clear doorway 6'-8" by 36"). Priced from \$1510.00 up. Model PUL Hand Operated Lift — 15 ft. — \$400.00. Custom-built lifters up to 100 ft.

Write for catalogue

Economy Engineering Co., 4518 W. Lake St., Chicago 24, Ill., 342 Madison Ave., New York 17, N. Y.

**ECONOMY
ENGINEERING**

Circle Item No. 91—Reader Service Card

steering and other safety features.

Fork truck drivers are offered increased protection with **Keasbey & Mattison** aluminized asbestos cloth that functions as a heat-resistant cover for catalytic exhaust purifiers installed on the counterweight of fork trucks. The "Kamklad" cover protects the driver from heat generated by the unit. The purifier units, manufactured by **Oxy-Catalyst**, eliminate carbon monoxide and other fumes in gasoline exhausts, an especially important safety measure in closed-in areas.

A portable explosives magazine that can be hauled by a light truck or tractor is available from **Austin Powder**. Model 800 has capacity for explosives, detonating fuse and caps totaling 8- to 10,000 pounds. Five large doors simplify unloading from the welded steel unit. A fifth wheel design offers excellent maneuverability in close quarters.

A new anti-jackknife system released by **Williams Power Brake** controls air brake application so that the brakes apply in train reaction, beginning with the trailer valves farthest from the tractor. The system is a venturi principle amplified on the tractor to perform correctly on any length service lines and with any make air brakes. Regardless of the speed of application, smooth and safer stopping is possible.

A new model tension wire puller, designed especially for distribution lines makes it possible for public utility companies to safely string new overhead cables through energized lines with minimum risk to personnel and equipment. Manufactured by **Petersen Engineering**, the puller will safely handle two conductors simultaneously.

Safety Promotion

United World Films, an authorized distributor of all U. S. Government films, has new safety films available, including "Safety in the Shop," "Safety Precautions for Electronics Personnel," and "Shop Safety." Requests for previews should be sent to the company's Government Film Department.

Bray Studios has produced two

films on air safety. "Operation Survival" and "Packing and Maintenance of (Chain Type) Parachutes" are offered as a public service on free loan to interested organizations.

A completely new series of stock safety designs on match book covers has been announced by **Universal Match**. The series consists of four different designs, each bearing a different safety theme. The match books advertise safety continually, and have become a widely-used means of conveying safety messages not only to employees, but to their families.

Noise Control Magazine has announced an expanded publishing program for 1958. Greater coverage in the field of shock and vibration control is a major feature of the new program. The publication will cover the areas of aircraft noise, architectural methods of noise control, machinery quieting, ventilating equipment noise and others.

Sign alongside a Florida highway: "Keep Florida green. Bring money."

DAY or
NIGHT
emergency device

VITAL!

3-IN-1
"FLASH-GLO"

for
TRAFFIC or
PEDESTRIAN

Safety!

**it
LIGHTS, FLAGS
& REFLECTS**

Baked-on enamel, red & white • Heavy gage steel • Reflectorized lettering for approaching lights • 2-way flashing top plus 2-way steady flashlights • 2-circuit switch for all-on or separate lighting • Easy-change 6-volt lantern battery • Straddles 4" hoses with legs collapsed • Stands 20" extended; at headlight level • Flex-shafted red flags for day use • Small & compact; occupies less than cu. ft. of trunk space • Guaranteed • Ship. wt. 6-lbs.

"FLASH-GLO" — a Casually Preventive!

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Box 209, Union, N. J.

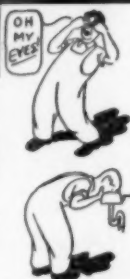
Circle Item No. 92—Reader Service Card

National Safety News, December, 1957

EYE WASHING FOUNTAIN



SAVE EYES!



Leading industrial doctors advise immediate washing with plenty of running water as the best first aid treatment for any chemical in the eyes. Records prove that washing with water for ten minutes or more, close to the accident, is necessary to reduce or eliminate eye damage.

Forehead operation leaves hands free to open eyelids so water can be directed wherever chemicals might be lodged. Sanitary white baked enamel bowl is resistant to most fumes.

Over 500 industrial plant installations have been made to date.

Write For Details.

VALVE
Chain Operated
Quick Action
Self-Closing

NEW EMERGENCY SHOWER



Deluge of Water
30 to 40
G.P.M.

The B & A Shower is the quickest and most satisfactory way to saturate a worker with gallons of water the instant an accident occurs, to prevent a disfiguring burn—even a fatality.

Special shower head, no holes to clog—can be used where unfiltered water prevails.

Write For Details.

GLASS SLIVERS
AND CHEMICAL
IN EYES!

DISFIGURING
FACIAL CUTS,
AND BURNS!

CUTS AND
CHEMICAL BURNS
ON ARMS /
AND BODY

THIS HAPPENS
WHEN
UNPROTECTED
GLASS BOTTLES
ARE BUMPED

NEW LOW COST B & A SAF-T-BAGS



5 PINT
1 GALLON
5 GALLON

are widely used for the safe handling of glass bottles containing harmful chemicals; also the storage and recovery of expensive serums, biologicals, and other costly products.

Painful cuts, disfiguring burns, loss of eyesight, or even a fatality, do result from corrosive liquid splash and flying glass when unprotected bottles shatter.

Write For Details.

BENSON & ASSOCIATES, INC.

P. O. Box 7542, Dept. N.S., Chicago 80, Ill.

Circle Item No. 73—Reader Service Card

National Safety News, December, 1957

Building Blocks

—From page 23

should be fitted to the needs of the safety program.

There has been a most remarkable response to the employee booklets that have been produced annually on vacation safety. Close to one million workers receive the small reminder that they have earned a vacation, have fun, but return safe.

The most satisfactory method of distributing employee booklets is to send them to the workers' homes. The safety material reaches them at a time when they can pause for a moment and study the contents. It has the multiple effect of making the worker's family aware of the fact that the safety program in the plant is a real and personal factor.

Safety Talks for Foremen

These talks were first devised by the Construction Section who felt there was a need for what they called short toolbox talks. Since we consider the foreman the key to our safety program, we must give him tools to do his job. He stands like a shopkeeper with a certain number of customers—his workers. But he has many items on his shelf and he sells those items best that he knows something about. To encourage him to sell safety we must make it as easy as possible. The five minute safety talks present each subject in an easily digestible form. With a minimum amount of preparation, the foreman can dole it out to others who need this product—safety.

In the seven books of "5 Minute Safety Talks" published to date, every cause of accidents has been covered—and in a number of ways. I suppose in some cases a foreman may take one of these talks and actually read it to his workers. But it is more effective if he uses the material to prepare himself for a short discussion on the subject and uses his own words.

In this way the foreman can refer to definite applications in his own department. There are talks for the new man, or safety atti-

MISSTEPS COST PLENTY



THIS STEP SAVES MONEY



BULLARD-TACCO

SAFETY TRUCK STEP

The first truly practical truck step will prevent back injuries, sprained ankles, damaged freight and driver fatigue. Step is fully retractable. If accidentally left extended, it will retract automatically without damage. Firm non-skid treads. Attaches easily under trucks, on tail gates, work tables, loading and freight docks.

➔
Raised or lowered
in five seconds.



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FOLDER AND SPECIFICATIONS

BULLARD

EVERYTHING
BULLARD
IN SAFETY

SINCE 1898

E. D. BULLARD CO.

2680 Bridgeway
SAUSALITO, CALIF.

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**SAFE · CONVENIENT
DURABLE · LOW COST**

**BALLYMORE
SAFETY-STEP
LADDERS**



Ballymore Safety-Step Ladders are available in a wide variety of sizes and models to meet working-height requirements up to 11'6". They are easily moved on rollers, but with no danger of "kick-out."

Made of all-welded 3/4" steel tubing for maximum strength. Rust-resistant aluminum coating gives a durable, attractive finish. Handrails, optional on 2- through 8-step models, help eliminate fear of accidents. Three treads available: expanded steel, grip steel lath, and rubber-clad steel plate.

Write for specific information to Ballymore Company, West Chester 17, Pa.

**BALLYMORE
LADDERS**



Circle Item No. 95—Reader Service Card

tude discussions that can be used for old hands.

This "5 minute" series that started in the construction industry proved so popular that specialized talks were prepared for the public utilities industry called "Tailboard Talks." Others were published for railroad and commercial vehicle supervisors.

To support the Falls Campaign all the talks that related to falls were collected into another book.

If you want your foreman to say something about safety, you must make it easy to get the words out of his mouth. The 5 minute talks provide such a safety amplifier.

Safetygraphs

Safetygraphs evolved during the late stages of World War II. Flip charts were a popular visual aid used by the armed forces to train thousands of draftees in a limited time. With the talk on the back and a picture illustrating the problem on the front, the flip charts made it simple to give a talk after only short preparation.

This is the simple but not the most effective way to use a safetygraph, however. As with other training, the class gets as much out of the instruction as the instructor puts into it. If in using a safetygraph, the instructor has reviewed the material and only needs to refer to the printed word from time to time, he can direct most of his attention to the audience.

One big advantage of the safetygraph is that the speaker can dwell on a single page if that page has significance for his audience. Moreover, the instructor works in a lighted room and can see the reaction that his talk has on his audience. He can pause and direct questions and even skip pages he feels do not have significance to the group he is addressing.

Some men prefer to personalize safetygraphs by having company identification painted on the printed illustrations. It makes it a bit more interesting if on occasion the audience sees some familiar slogan or trade mark which to them means their company.

Did you ever walk up to the cash register at the local drug

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C & E (ERICSON)

**The C & E
(Ericson)
Heavy Duty
Extension
Cord Reel
Lasts
a Long,
Long Time**



—**BECAUSE** it lacks the parts that usually play out first. No ratchets, pawls or dogs to wear out or make trouble. Exclusive scroll type lock. 25-foot and 45-foot models. A really heavy duty product . . .



Just another winner in the extensive C & E (Ericson) line, dependable and progressive since 1918. Specials to order. Ask on your letterhead for Catalog 53-N.

Electrical safety products

ERICSON MANUFACTURING CO.

1660 HAYDEN AVE., CLEVELAND 12, OHIO



For Safety
**Guard-Ann
Hat**

Combines utmost protection and style. Exclusive patented features found in no other hat.

**Write for Free Sample
or Order Direct from us**

\$15.00 dz.

CHIC MAID HAT MFG. CO., Inc.
630 HIGH STREET
BUFFALO 11, N. Y.

Circle Item No. 96—Reader Service Card



Medical Supply Company concentrates its *entire* efforts on the manufacture and distribution of first aid equipment and supplies for the field operations of industry.

When you buy MScO, you buy superior quality products resulting from long, practical experience of *the world's largest exclusive manufacturer of unit-type first aid.*



new-style plastic eye tip tubes

No rough or sharp edges . . . no danger . . . with this new, *smooth* polyethylene tip on MScO ophthalmic tubes! Another "MScO first" . . . another example of how you always can expect the latest advancements in first aid unit packages furnished by Medical Supply Company. Write for details.

Medical Supply Company
Rockford, Ill. In Canada, It's Safety Supply Co.



Circle Item No. 97—Reader Service Card

National Safety News, December, 1957

counter and see a display that offered you a special two-for-the-price-of-one offer?

Decals

You had your money out and this single glance nudged you into making an additional purchase. The ad men call this "point of sale" advertising. This is what the small decals—spotted where you want safety action to be sold—do for your program.

You want goggles to be worn when using the grinder so you place a reminder in that spot where it will be seen when the man stands in front of the equipment. You don't want this valve to be closed without authority, because it's a sprinkler valve and if it remains closed a building may burn down because there will be no water supply to the sprinkler heads, so you place a bright red decal close to the valve. These are safety sales that must be made right at the spot where the message is posted.

Sound Slidefilms

The film program of the Council started very modestly. Many of the early films are of the sound-slide variety. Although there are people who say this type of visual aid is outmoded, this is not the common feeling among training directors. Sound slides have certain training features that are not possible with motion pictures. Because the projection equipment is simple, you can hold on one subject and check audience reaction.

Very recently we have had requests for more films of the case history type such as those used in one of the early supervisory training series. In this film a problem is set up and the audience is given time to formulate an answer. Then the correct answer is given and the viewers can determine whether their analysis was correct or not. This undoubtedly could be done with motion pictures but it is much simpler to do it with a sound-slide version.

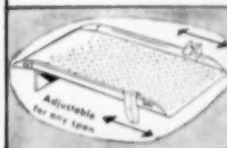
The equipment needed to project sound slides is inexpensive and easily portable. This is advantageous for the individual who must conduct many meetings and

Magcoa dockboard Span-Locks*



Now 100% safety

with
Span-Locks



Fast—
easy
to use

Span-Locks end all board slippage

MAGCOA DOCKBOARDS—

- ✓ Lightweight . . . yet strong
- ✓ Easy to position—no strain
- ✓ Safety tread improves traction
- ✓ Special hand holes prevent injuries

MAGCOA SPAN-LOCKS—

- ✓ Make your board completely safe
- ✓ Fully adjustable to any span
- ✓ Simple in construction . . . low in cost



For full details
use the coupon below.

*Patent Pending

MAGNESIUM COMPANY OF AMERICA

MATERIALS HANDLING DIV.
magcoa East Chicago 4, Indiana

Representatives in principal cities

- ☐ Please send special Dockboard & Span-Lock Facts File

Name and Title _____

Company _____

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Circle Item No. 98—Reader Service Card

SYNONYMOUS WITH SAFETY



COMBUSTIBLE
GAS
INDICATORS
AND ALARMS

For testing selected danger areas, J-W portable instruments give dependable, troublefree service at low cost.



J-W Model G Portable Indicator—for easy spot checking of confined and inaccessible spaces.

Battery-operated. Soft aspirator bulb allows almost effortless sample drawing. Weighs slightly over 4 lbs. Automatically switches on and off with appropriate movement of aspirator bulb.



J-W Sentinel Portable, Audible Alarm—for continuous "watchdog" protection around any hazardous activity, indoors and out.

Indicates quantity of combustible gas build-up and loudly warns of dangerous concentration around such operations as welding and electrical repair, and when cleaning and repairing tanks and lines. Ruggedly built for versatile service.



For detailed data on these models and J-W instruments for fixed installation, contact the makers of top quality products for over 25 years:

JOHNSON-WILLIAMS, INC.

Palo Alto 13, California

Canadian customers, please write:
SAFETY SUPPLY CO. FLECK BROS. LTD.
TORONTO, ONT. VANCOUVER, B. C.

Circle Item No. 99—Reader Service Card

carry his own projection equipment. Any speaker, who has found himself without adequate projection equipment and was relying on a film to help put across a message, prefers to be sure and likes to carry his own equipment.

Since sound slidefilms are not as costly to produce, it is possible to build a rather complete library of safety subjects on a modest budget. The Council does not believe that the day of the sound slidefilm has passed, but considers them valuable teaching aids that can be enhanced by an alert safety trainer who wants to hold and control his audience.

Slide-Motion Films

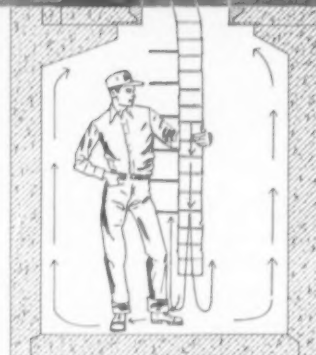
From the sound slidefilms, the Council moved into the motion picture field at a deliberate and calculated pace. The first conversion films were called slide-motion pictures. This type of picture was in the main made up of still pictures with two or three full-motion sequences. By using fades, dissolves and wipes, techniques for blending one picture into the next, a feeling of motion was imparted to the entire film. One of the first films of this type was *Easy on the Eyes*, an eye protection film.

Again we feel that this type of film has certain advantages. You can cover more ground with a still camera at a comparable cost than you can with a movie camera. Motion pictures require longer set-up time with lighting a major problem. This creates a problem as these films are made in plants of member companies and we are guests of the management. Making films cannot help but affect production and we don't want to lose our "guest card" by being obnoxious.

Besides, film budgets often allow only a certain number of locations and this adds up fast in making full-motion pictures. With the slide-motion film we could set up at more locations, the lighting was comparatively simple, and workers were only mildly distracted by the still camera.

In recent years Council films have tried to use all available industrial film techniques. Most

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National Safety News, December, 1957

films are made in both motion picture and sound-slide versions. Simulated animation was incorporated first in its simplest form. Recently, in a picture on falls, we have used the better version of the technique commonly seen on TV.

Color and Full-Motion Films

Color has been made available when it was felt that color would enhance the value of the film. However, since we have this vast number of users of our films we cannot completely forget any of our old friends. If we make a color film we must also provide a black and white version for the individual with a more modest budget. We must also remember our sound-slide film users and keep them up to date with new pictures. Since their equipment, like everything else, has gone automatic, we may also require a film with a silent "beep" that trips the picture. In short, we make as many as six different ver-

sions of one film to satisfy our entire member requirement.

Using Films

Now a word about the proper use of films. To turn on a projector, snap off the lights and assume that an audience is going to absorb the information in the film is not the accepted practice of good industrial training authorities.

With films, you alert the audience to what they can expect to see, important points you want them to pay particular attention to, areas in the film that may be controversial and open their minds to intelligent viewing. You let them know that the film will be discussed after the showing and then project the picture. After the showing, the points outlined are discussed and the individual conducting the class has some idea as to whether he and his film have done a job or not.

Oh yes, another thing: be sure you have seen the film yourself so that you are not surprised with what comes up. Need I tell you to check the projector?

These are only a few of the building blocks used in designing a safety program. They are not all adaptable to every safety structure. Like the house and the contractor, you have to have some idea as to the program design you want and the pieces available to fit that design.

But that isn't the end of what goes into a successful safety program. We haven't discussed the fundamental blocks that build the foundation: statistical and engineering information. Technical information in the form of data sheets, detail sheets, safe and health practice pamphlets and the various bound volumes, including the 1,400 page *Accident Prevention Manual*, are the caissons on which the safety building and ornaments are mounted. The development of these items and their suggested uses will be treated in a later article.

The happiest days of a woman's life are school days—providing her children are old enough to attend.

KENNEDY *HEAD SNUGGER Winter Liners



ESSENTIAL for outdoor workmen

Kennedy Head Snuggers, as liners under safety hard hats provide the necessary protection against cold, wintry blasts. Made of strong, sanforized materials, completely washable. Hold their shape and color. An outstanding buy in winter liners.

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* T. M. Reg. applied for

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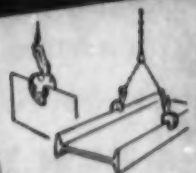
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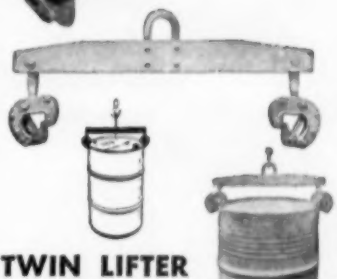
National Safety News, December, 1957

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- Filter sealed in featherweight rugged aluminum cartridge
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Accidents

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Circle Item No. 102—Reader Service Card

OFF THE JOB

Safety programs for plant and community

BY HARRY C. JOHNSON

NSC Staff Representative, OTJ Safety Committee

More than Coincidence?



To George A. LaHusen of Crown-Zellerbach Corporation go our thanks for supplying the accompanying cartoon and the statistics about his company's off-the-job accident experience.

During the first six months of 1957 employees continued to get injured off the job at a rate of more than five disabling injuries to every one occurring in the mill and converting plants. Home injuries accounted for 57 per cent of all off-the-job injuries. Motor vehicles accounted for 24 per cent and accidents in public places for 19 per cent.

Falls continue to be the greatest single cause of off-the-job injuries; 70 out of 184 injuries were from this one basic cause. Motor vehicle accidents tend to be more serious and have accounted for two fatalities. Employees injured away from work lost an average of 15 days per injury.

For the first time since the company has been reporting off-the-job injuries they have noted

a relationship between occupational and non-occupational injuries. This may be coincidental; however, the two mill divisions with the highest job frequency rates also had the highest accident frequency rate off the job.

In safety meetings with foremen or employees it helps to have a change of pace—to supplement discussions of plant safety problems with those of accidents occurring away from work.

Many subjects can be used in these meetings. Right now timely topics include ice on walkways, removal of icicles, careful driving habits, do-it-yourself projects, safe practices when using hand and power tools, ladders, home fire inspection, and good housekeeping.

Toward spring there will be safety in gardening, with emphasis on the use of power mowers. And with spring the vacation season will be starting, so plan your program on this subject before the rush starts.

The Exposition

—From page 255

Marsh & McLennan, Inc.—Insurance and safety service.

Martindale Electric Co.—Dust masks, eye protection, electric test instruments.

Masury Young Co.—Floor maintenance materials.

McAn, Thom, Safety Shoe Div.—Safety footwear.

McDermott, Julian A., Co.—Warning and safety lighting for municipal, industrial, utility and aviation use.

McDonald, B. F., Co.—General industrial safety equipment.

Medical Supply Co.—Unit first aid supplies, snake bite and burn kits.

Metropolitan Life Insurance Co.—Publications on safety and health.

Micro Switch Div., Minneapolis-Honeywell Regulator Co.—Controls for power machines, safety interlock switches.

Milburn Co.—Protective creams, work gloves and garments, waterless hand cleaner.

Miller Equipment Co.—Industrial safety belts and linemen's equipment.

Mine Safety Appliances Co.—Safety and first-aid equipment for all industries.

National Medical Supply Co.—First-aid supplies and equipment.

Neo-Flasher Mfg. Co.—Industrial and traffic emergency and flashing signals.

New Castle Battery Mfg. Co.—School crossing signals.

Newco Mfg. Co.—Wire rope fittings, safety hooks, load protectors.

Nichols Engineering Co.—Steel unloading and tank car work platforms.

Notifier Mfg. Co.—Fire detection and sprinkler supervisory equipment.

Occupational Hazards—Safety publications.

Onox, Inc.—Skin toughener and foot-mats for athlete's foot.

Osborn Mfg. Corp.—Pliers and tongs for feeding punch presses.

Oxy-Catalyst, Inc.—Catalytic purifiers for automotive exhaust.

Pac-Kit Co.—Unit first-aid supplies.

Packwood, G. H., Mfg. Co.—Skin cleansers and dispensers.

Patent Scaffolding Co.—Wood and aluminum ladders, suspended, sectional steel, tubular steel and aluminum scaffolding, rolling scaffolds, sidewalk canopies, steel grandstands.

Petersen Engineering Co.—Construction equipment for utilities.

Pioneer Rubber Co.—Rubber, neoprene and coated gloves.

Porto-Clinic Instruments, Inc.—Driver testing and training equipment, visual aids.

Positive Safety Mfg. Co.—Power press guards.

Prairie State Products Co.—Metal and electrical safety and directional signs.

Progress Industries, Inc.—Wide-vision goggles.

Protectoseal Co.—Safety cans for flammable liquids, waste cans, flame arrester vents.

Prutman, Ted, Defrosto Mirrors, Inc.—De-icer truck mirrors.

Pulmosan Safety Equipment Corp.—Respiratory and eye protection, work gloves, protective clothing.

Putnam Rolling Ladder Co.—Reinforced plastic extension and single ladders, rolling ladders.

Pyrene-C-O-Two Div., The Fyr-Fyter Co.—Carbon dioxide and dry chemical extinguishers and systems, smoke detectors.

Racine Glove Co.—Work gloves and protective clothing.

Radiator Specialty Co.—Rubber cone traffic guides.

Randolph Laboratories, Inc.—Carbon



EXPOSITION VISITORS were really seeing snakes! At the booth of Medical Supply Company, John E. Werler, curator of Houston Zoo, demonstrates a boa constrictor's desirability as a pet to a skeptical audience. He wasn't as chummy with the rattlers and moccasins in the cages.

HERE! NOW!

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SAFETY

REQUIREMENTS

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"NEW CONCEPT"

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SERIES PS 100



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- Headframe of unbreakable, soft plastic.
- Reinforced all-plastic spark deflector.
- Smooth, positive slide adjustment—6-8½ headsize.
- Foam Rubber snap in-out sweatband.
- Extra-wide acetate visor with new snap fastener.
- Plastic bound visors.
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MEET EMERGENCIES FASTER, BETTER WITH HAGGARD'S STRETCHER



SETS UP IN SECONDS so that the patient can be placed on it immediately. When folded, Haggard's Stretcher needs a space of only 24" x 50" x 6". Can be mounted on wall or carried in any vehicle.



USE ANYPLACE... in narrow openings and halls, stairways, elevators, shafts, manholes... anywhere, even though space is limited and access narrow.

Haggard's Stretcher now makes it possible to properly remove the injured from many places which have heretofore been inaccessible for stretcher service. Patient is properly supported in any position from horizontal to upright.



Ask your MSCO distributor for a demonstration of Haggard's Stretcher, an MSCO exclusive, or write direct.



*Specialists in
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dioxide fire extinguishers, automatic dry chemical systems.

Reece Wooden Sole Shoe Co.—Wooden sole safety footwear.

Riegel Textile Corp., Industrial Gloves Div.—Work gloves.

Rockwood Sprinkler Co.—Automatic fire protection systems, sprinklers, water fog, fogfoam and foam.

Rose Mfg. Co.—Industrial and automobile safety belts, ladder shoes.

Safeguard Mfg. Co.—Press guards.

Safety Box Toe Co.—Steel toes for safety shoes.

Safety Clothing and Equipment Co.—Safety clothing.

Safety First Products Corp.—Fire extinguishers.

Safety First Shoe Co.—Industrial safety footwear.

Safety First Supply Co.—General industrial safety equipment.

Safety Tower Ladder Co.—Safety devices for ladders and scaffolds.

Salisbury, W. H., & Co.—Linemen's rubber protective equipment.

Sarole, Inc.—Carriers for the injured.

Sawyer-Tower, Inc.—Neoprene and rubber clothing.

Schrader's, A., Son Div., Scovill Mfg. Co.—Pneumatic press controls, valves, cylinders and related products.

Scientific Industrial Supply Co.—Gloves, clothing, general safety equipment.

Scott Aviation Corp.—Breathing apparatus.

Searjeant Metal Products, Inc.—Guards and controls for punch presses and shears.

Sellstrom Mfg. Co.—Face and eye protection.

Speakman Co.—Emergency Showers, eye wash fountains.

Speed-Dri Corp.—Oil and grease absorbents.

Standard Safety Equipment Co.—General industrial safety equipment.

Stephenson Corp.—Resuscitation equipment, chemical tests for intoxication.

Stonehouse Signs, Inc.—Instructional and warning signs.

Stop-Fire, Inc.—Portable extinguishers.

Surety Rubber Co.—Protective equipment for linemen and industrial workers.

Surdy Manufacturing Co.—Guards for wood and metal working machinery.

Taylor, S. G., Chain Co.—Alloy steel chains and fittings.

Tect, Inc.—Safety solvents.

Titmus Optical Co.—Safety eyewear, ophthalmic instruments.

Tool and Mfg. Co.—Non-spalling tools, hand protectors.

Union Wire Rope Corp.—Wire rope slings and towlines.

United States Safety Service Co.—Head and eye protection, plastic lenses, salt tablets.

Universal Match Corp.—Match book programs stressing health, safety, sanitation and fire prevention.

Wagner Sign Service—Changeable copy displays.

Watchemoket Optical Co.—Plastic eye protection, safety signs.

Welsh Manufacturing Co.—Face and eye protection.

Western Industrial Pharmaceuticals Co.—Ointments for poison ivy.

Westline Products Div., Western Lithograph Co.—Self-sticking signs, slogans, pipe markers.

Wheeler Protective Apparel, Inc.—Safety clothing.

Whitney, L. A., Associates—Visual Aids.

Williams Jewelry and Manufacturing Co.—Awards, badges and trophies.

Willson Products Div., Ray-O-Vac Co.—Eye and respiratory protection and allied safety devices.

Wilson Rubber Co., Div. Becton, Dickinson & Co.—Rubber, neoprene and plastic gloves.

Wolverine Shoe and Tanning Corp.—Safety shoes.

EDUCATIONAL EXHIBITORS

American Optometric Assn.—Better vision on highway and in industry.

Argonne National Laboratory—Equipment and guides used in radiation safety work.

Boy Scouts of America—Exhibit of 1958 Safety Good Turn Campaign.

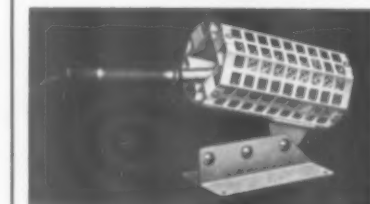
Inter-American Safety Council, Inc.—Safety services for Latin America.

National Bureau of Standards—Loading effect of wind on towers.

National Society for the Prevention of Blindness—Educational material for eyesight conservation, "Wise Owl Club."



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ADJUSTABLE SOLDERING IRON HOLDERS

Three sizes for large and small irons. Can be placed on top of bench, fastened under bench top or shelf. Available with wiping pad attachment, also slide for fastening small holder to large.

Write for further information.
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Circle Item No. 105—Reader Service Card
National Safety News, December, 1957

Congress Quotes

—From page 70

its container, it inflates automatically while flying through the air.

The use of inflatable life rafts is becoming more widespread and will increase as its reliability is increased and its cost reduced.

—Cmdr. Joseph W. Naab, Jr.,
U.S. Coast Guard. (Marine)

Fingerprinting for Safety

A man's fingerprints may reveal if he's a good accident risk. A record of arrests and convictions may turn up, and this, plus other data—a spotty job history, frequent minor injuries, and numerous hospitalizations—may suggest a worker's instability and predisposition to have accidents.

My company started using pre-employment tests about seven years ago. Coincident with this program some clues may turn up as to an applicant's personality traits and how well he adjusts to every day living—a hint, often, of a man's future behavior.

If he is a misfit he will develop a poor record, part of which will be his accident and injury rate.

—J.T. Urban, assistant to the vice-president and general manager, Denver & Rio Grande Western Railroad Co. (Railroad)

Traffic Distractions

An experiment using the Smith-Cummings system of training eyes for expert driving shows that four out of five drivers fail to see traffic hazards soon enough because they don't use their eyes correctly.

The system is a technique for developing power of observation and concentration of motorists to minimize the effect of accident-causing distractions. The five most common distractions are route problems, mental disturbances, scenery, in-the-car distractions, and unfamiliar driving tasks.

These are the key seeing steps in driving:

1. Aim high in steering. Sit erect behind the wheel, with your back well supported and with an adequate field of vision. A quick

glance well ahead of the center of your intended driving path is necessary for correct steering.

2. Get the "big picture." Most drivers think they watch well ahead while actually their eyes are fixed on the car in front.

3. Keep your eyes moving. Develop the habit of scanning areas to the rear, far ahead, nearby and to both sides. Expert drivers see in quick glances.

4. Leave yourself an out. Adjust your pace in traffic so you have a stopping margin and open space, at least on one side, so you can swerve away from sudden danger.

5. Make sure they see you. Never assume the other driver won't do something unexpected. Don't count on traffic laws to guard you. Give early warning with your horn or blinker lights.

—Elbert Hugunin, motor vehicle administration specialist, Northwestern Traffic Institute. (School & College)

No Hot Work

No one—not even professional electricians—should work on electrical circuits without first cutting the current. At the beginning of 1945 my firm adopted a "no-hot-work" program. Since then the plant has completely wiped out injuries from electric shock.

Electrical repairs in the plant are made during scheduled production stoppages, so there has been no notable loss in production. The no-hot-work rule is one of the greatest improvements in work methods ever experienced.

—W.F. Lippincott, electrical maintenance engineer, Chamber Works, E.I. du Pont de Nemours & Co. (Electrical Equipment)

Multicolored Switches

A new idea in colored push-buttons is to have one show several colors. Each color denotes a condition that can be controlled either locally or remotely.

For example, the color could change if a condition changed at



B & J SAFETY FRICTION WRENCH SPEEDS HOPPER CAR UNLOADING

... gives greater
protection to employees

The B & J SAFETY FRICTION WRENCH dumps and winds up hopper car doors in less time because it releases instantly and operates with the slightest handle pressure. Its extra long handle gives greater leverage and permits the worker to stand clear of hopper car door.

Its conical head turns inside two straps, so handle cannot spring up and injure worker.

Widely used throughout industry, the B & J Safety Friction Wrench is a superior tool that stands up under rough treatment. Its simple design eliminates constant repairing—no springs, bolts nor ball bearings to cause trouble; no panels or triggers to catch.

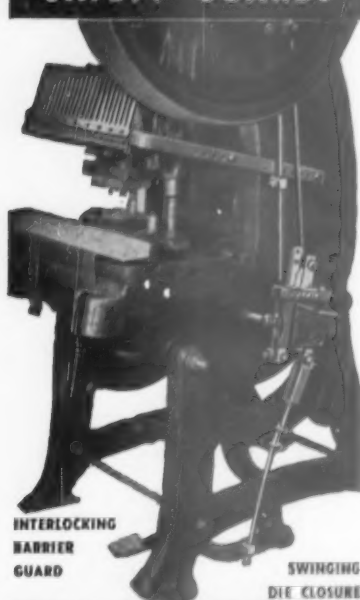
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JUNKIN SAFETY GUARDS



Your SUREST Protection Against Press Accidents

JUNKIN safety guards prevent press accidents, afford maximum protection, increase press production, lower insurance costs and generally improve plant morale. Make an investment in safety now and investigate Junkin Safety Guards for primary and secondary punch press operations. Write for free catalog "The Key to Protection".



the other end of a huge printing press. The operator then would know not to push the starter button until the proper color showed.

Such developments are the result of normal progress and constant cooperation to meet the progressive requirements of safety engineers engaged in a continuous effort to out-think the unthinking worker.

—Frank N. Burt, manager, trip control department, Micro-Switch Div., Minneapolis-Honeywell Regulator Co. (Printing & Publishing)

Gas Station Restrictions

There is no reason, from a fire protection point of view, to set limits on the distance between service stations. No more so than in making the same restriction on barber shops, hotels, and restaurants.

Neither is there any good reason for limiting the size of tanks or quantity of gasoline stored. Years of experience have taught that explosions occur only rarely in underground tanks. The real hazard lies in the removal or abandonment of such tanks.

The fire record of service stations is excellent.

—M.E. Woodworth, flammable liquids engineer, National Fire Protection Assn. (Petroleum)

Built-in Mine Safety

Fire walls and doors to separate buildings into several distinct areas is only one of the safety features built into my company's Tracy Mine, constructed in 1951.

All buildings are linked by underground tunnels and corridors, making for ease of movement during the severe winters in Michigan. In designing the shop building we tried to eliminate heavy manual lifting. A 10-ton overhead traveling crane, a monorail hoist, and fork lift trucks do the job.

To date all the built-in safety features of the plant have been more than justified.

—Robert W. Braund, manager, Michigan Ore Div., Jones & Laughlin Steel Corp. (Mining)

Dead or Alive

The simplest way to prevent electrical shock is to make sure you don't come in contact with live circuits and grounded surfaces. There are two ways of working on a circuit—dead or alive. That applies to the workman as well as the circuit.

If you must work on or near live electrical connections, stand on dry boards or other nonconducting materials. High-grade, rubber-insulated cords suited to most conditions should be used on electrical devices and equipment. Portable electric tools should be grounded, preferably by a third conductor in a connecting cable using polarized plugs and receptacles.

—Howard A. Brown, Rochester (N.Y.) Gas & Electric Corp. (Pulp & Paper)

Crash Safety Improvements

None of the many crash safety improvements for automobiles is nearly so effective as a good seat belt. Seat belts are an effective step in "packaging" the passenger. They are easy to install and adaptable to any car.

However, they will never be used by 100 per cent of the passengers in automobiles. Therefore, the best crash safety improvements — as measured by total number of deaths and injuries reduced—will be those that are in a car, ready to serve when a crash occurs.

In this category are door locks and padded instrument panels and windshield "headers."

—Edward R. Dye, head of the safety design research department, Cornell Aeronautical Laboratory. (Traffic)

Patient Fact Finders

Patience and thoroughness—these are the qualities accident investigators need. An investigator must be patient and methodical to insure thoroughness. His efforts must continually be directed toward the gathering of facts.

In his fact-finding, he must be impartial. He must find out exactly what happened and why. He must realize that it would serve no purpose to obtain a biased story that would tend to white-

wash an individual or group.

While interpretation and explanation have their places in safety investigation, they must be kept in their proper places and must not be allowed to interfere with the basic facts.

—William H. Corrigan, manager, Security Department, Ford Motor Co. (Metals)

Corrosion in Coal Mines

The substitution of metallic roof bolts for wood posts in mines poses a new problem that needs attention. With the increase of mechanization, iron, steel, and light metals are being used more widely. Though this has eliminated some undesirable features, it also creates the problem of corrosion.

Use of such mining structures as track, pipe, trolley hangers, beams, and armored cables presents corrosion problems.

It is my opinion that corrosion is one problem that deserves considerable attention and research to be reduced to safe proportions. The mining industry cannot afford to ignore it.

—John M. Muchnok, electrical inspector, Pennsylvania Department of Mines and Mineral Industries. (Coal Mining)

A State-wide Program

North Carolina is the only state that has ever attempted an all-inclusive prevention and first aid program for every employee. It's the best safety step we've ever taken.

The program of the state-wide American Red Cross prevention and first aid courses was started in 1956. The highway department now has about 400 qualified Red Cross instructors and more than 4,000 employees capable of administering first aid.

We hope to continue our instruction until every highway employee holds at least an American Red Cross standard first aid card.

—H. B. Jones, safety director, North Carolina Highway Commission. (Public Employee)

Handling Ammonia

The hazards of ammonia are no greater than any other materials. Safe practices for the maintenance

of pressure equipment, the handling of cylinders and training of employees are the same as for any department or operation in the plant.

Ammonia represents a hazard in four ways:

1. As a noxious or toxic material.
2. It expands as a liquid as the temperature is raised.
3. As a gas, ammonia is a bodily injury hazard.
4. It is an explosion hazard in compression or refrigeration equipment.

—E. V. Anderson, safety engineer, Johnson & Higgins. (Fertilizer)

Safer at Sea

Inland waters are more dangerous than the high seas. Inland sailors are more likely to have accidents than those working on ocean vessels. These men are in port more often, they work in more confined areas, and they work almost every day. Hazards are even greater in the northern sections of the country during winter months.

—S. B. Parsell, operating manager, Inland Div., Socony Mobil Oil Co. (Marine)

Find Drinkers Are Most Easily Shocked

ALCOHOLICS, persons suffering from hardening of the arteries and those with greasy skins are especially susceptible to damage from electric shock. Dr. G. Kenneth Lewis of the University of Illinois College of Medicine told a recent meeting of the International College of Surgeons.

Pointing out that brief contact with a 1,000-volt high tension current when the body is dry can be less dangerous than 110 volts when the body is wet and well grounded, he said that the path of the current is often more important than its intensity. Current passing through the left side can be more damaging because of possible injury to the heart.

Neighbor (to father of the bride): "So you have lost a daughter?"

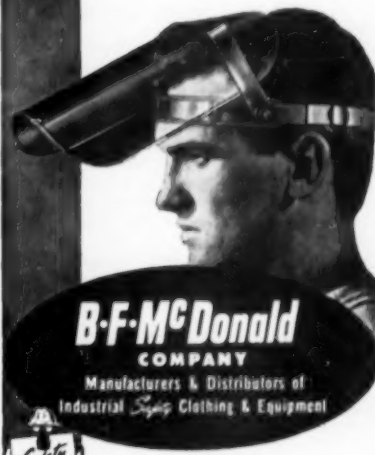
Father: "And gained a bathroom."



Full eye, face and forehead protection plus full working freedom

Protect against sparks, hot or molten metal and fragments without obstructing vision or working freedom. Transparent visor is fog resistant, non-inflammable. Leather sweat band, all rubber headband. Three lengths, 4", 6" and 8" (shown)

Write for bulletin & prices



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Quickly and Easily Installed
by Anyone — No
Tools Needed!

- Simply slip GETS-A-LITE GUARD AND GUIDE over the fixture, as illustrated.
- Made of indestructible spring steel wire. Nothing to break, get out of order or replace. Will last indefinitely.
- Once installed, GETS-A-LITE GUARD AND GUIDE is NEVER removed.
- Nothing to unlock, fuss with or lock, when changing lamps.
- GETS-A-LITE GUARD AND GUIDE actually steers lamp into socket, enabling maintenance man to change lamp in 10 seconds!
- Available for 40 watt and 100 watt fluorescent lamps.

GETS-A-LITE CO. — Dept. NS-127
3845 N. Milwaukee Ave., Chicago 41, Ill.

COTTERMAN

WELDED STEEL SAFETY LADDERS

For Filing Rooms — Stock Rooms — Vaults



SAFE
•
STRONG
•
EASY TO MOVE
•
EASY TO CLIMB
•
NON-SKID STEPS

Frame work made from heavy gauge 1" diameter round steel furniture tubing, with all joints electrically welded. Mounted on Swivel Brake Casters which allow the ladder to be rolled freely when no one is on it. When you step on the ladder the rubber cushioned legs rest on the floor and prevent rolling.

Made in 13 heights—from 12" 1 Step to 117" 13 Step, and in 4 widths—18", 20", 26" and 32", with and without hand and platform rails.

We also manufacture the
COTTERMAN TRUCK - N - LADDER
A Truck and Ladder combined in a single unit.

Write for Folder No. 36-N for complete information and prices on both these items.

Manufactured by

I. D. COTTERMAN

4335 N. Ravenswood Ave. Chicago 40, Ill.

Circle Item No. 110—Reader Service Card

Calendar Contest Winners For October



Said Dad to son Joe, "It will pay
To watch others, and learn
the safe way."

But this tip young Joe spurned,
'Til the hard way he learned

How would you have completed
that limerick?

Mrs. Howard D. Fountain, wife of an insurance agent for Mutual Service Insurance, St. Paul, Minn., won the \$100 first prize in the National Safety Council's "Safe-a-Life Line" contest with this line:

"In-the-know" guys gaze "pro"-
wise each day.

The contest appears monthly on the back pages of the Council's calendar. The theme for the October contest was "Learn from Others."

Second prize of \$50 went to Louis Grossman, a chemist with Stein, Hall & Co., Long Island City, N. Y. His entry was:

"Know-it-alls" are ripe accident
prey!

Mrs. Lois McCarthy, secretary, Kraft Foods Co., Pocatello, Idaho, won third prize of \$25 for this line:

That two eyes beat "too wise" any
day!

The 30 winners of \$5 prizes are:
Mrs. Ann S. Lacy, Mississippi Chemical Corp., Yazoo City, Miss.

Miss Ann Sosenko, The Travelers Insurance Co., St. Louis, Mo.

Miss Alma S. Kirby, U. S. Air Corps, Sewart Air Force Base, Tenn.

Mrs. W. N. Sanders, Tennessee Coal & Iron Div. of U. S. Steel Corp., Fairfield, Ala.

Joseph Kuegler, Carling Brewery Co., Belleville, Ill.

Mrs. Violet Lewis, Adipic Acid Div. of Sabine River Works, E. I. du Pont de Nemours & Co., Orange, Tex.

James E. Davis, Los Angeles Water & Power Dept., Los Angeles, Calif.

Miss Evelyn Hellum, Weyerhaeuser Timber Co., Everett, Wash.

Ray E. Peterson, Department of Education, State of Colorado, Denver, Colo.

Charles Firing, The Texas Company, El Paso, Tex.

Louis E. Palffy, (Individual Member), Minneapolis, Minn.

Lem Levinson, Bethlehem Steel Co. Shipyard, Terminal Island, Calif.

Miss Gertrude E. Larkin, AC Spark Plug Corp., Milwaukee, Wis.

Reginald Geiser, Employers Reinsurance Corp., Kansas City, Mo.

Arno R. Peterson, U. S. Post Office, Denver, Colo.

H. B. Estabrooks, Tennessee Copper Co., Copperhill, Tenn.

Mrs. Roy Hopkins, Lake Superior District Power Co., Ironwood, Mich.

L. J. Burke, Washington State Dept. of Health, Seattle, Wash.

Mrs. James A. Corn, Union Carbide Nuclear Co., Oak Ridge, Tenn.

Charles Mateju, Pittsburgh Plate Glass Co., Milwaukee, Wis.

Miss Viola C. Hilton, General Telephone Co. of Michigan, Muskegon, Mich.

Mrs. Effie Lasley, Indiana Bell Telephone Co., Indianapolis, Ind.

Ronald E. Henn, Packard Electric Div. of General Motors Corp., Warren, Ohio.

Mrs. Edmund Dugas, Mossberg Pressed Steel Co., Attleboro, Mass.

Miss Anne Witten, AAAA Accurate Addressing Corp., Brooklyn, N. Y.

Harry W. Kemble, C & P Telephone Co., Washington, D. C.

Mrs. Marjorie B. Taiclet, Republic Steel Co., Warren, Ohio

Joseph Cameron, Worcester County Electric Co., Worcester, Mass.

Mrs. Winona H. Reid, Plantation Pipe Line Co., Atlanta, Ga.

John A. Pearce, Brush Beryllium Co., Luckey, Ohio

★ The Positive Ladder Safety Device



Locks AUTOMATICALLY & instantly-holds

Prevents death and injuries from falling.

Automatic: Positive. Will catch workman if he starts to fall even if unconscious.

Inexpensive. Easy to install. No upkeep.

Clamps to any rung ladders, peg ladders, pole or frame. No welding or cutting.

Simple to operate: Requires no attention from climber.

Notched rail hot dipped galvanized. Entire equipment rust and corrosion proof.

Can be kept free of ice by applying heat inside carrier rail.

In use approx. 9 years. Approved by Safety Engineers and Govt. Agencies throughout country.

"Patented. Manufactured only by"

SAFETY TOWER LADDER CO.

1024 Burbank Blvd., P.O. Box 1052

BURBANK, CALIFORNIA

Consultation Corner

—From page 64

electrodes shall be not greater than 1.8 milliamperes. A load of 75 pounds, applied to the block, will assure adequate contact."

Another method of testing the conductivity of shoes is illustrated by the attached illustration. In this method the shoes are tested with the wearer standing on two metal plates which are connected to a source of electricity and an ohmmeter with the wearer's body completing the circuit. In this case, obviously, the maximum current on short circuit across the electrodes must be kept at a very low value. The 1.8 milliamperes value specified in the Z41.3 code would probably be safe, but it would be better to reduce the current to less than one milliamperes. It would also be necessary to take into account the resistance of the wearer's body, which would be done by placing a fixed resistor in the circuit.

The advantage of the latter

method is that the conductivity of workers' shoes could be tested daily or even at more frequent intervals, since all that is necessary is for the worker to stand on the two plates. The attendant then merely reads the meter and sends the worker on his way if the conductivity shows up satisfactorily.

It is possible to secure the necessary equipment to test the conductivity of shoes from one of several companies. These companies have products which are listed by Underwriters' Laboratories.

The following comments are pertinent: Conductive safety shoes may not be effective if the resistance between the surface of the floor and ground exceeds 250,000 ohms. The resistance of floors may be measured between ground and a 5-lb. electrode in direct contact with five sq. in. of floor area.

Floor oils, oily cleaning compounds, insulating floor waxes, and so forth, should not be used on floors where conductive shoes are worn.

To be effective, soles and heels of conductive safety shoes must be kept clean. Oils, greases, dirt, corrosion products, etc., may impair the effectiveness of conductive shoes.

Wearers of conductive shoes should avoid silk or woolen stockings because of the insulating properties of silk and wool. Cotton, rayon, or nylon, if clean, are acceptable.

Foot powders, because of their drying and insulating properties, should be avoided.

Librarian: "What kind of book would you like? Something light or something heavy?"

Matron: "It doesn't matter. I have my car outside."

Girls who know their onions often marry men with lots of lettuce and end up with plenty of carats.

Two kinds of families are likely to have a house full of antique furniture: the kind with money and the kind with kids.

Circle Item No. 113—Reader Service Card

FOR SAFETY SAKE

FOR SAFETY SAKE

specify
Safe-Hi
POLE AND WALL
GRIPS



Hold the top of your ladder securely. Adjustable pole grip holds top of ladder on any pole, pipe or corner. Wall grip prevents side slipping of the ladder. Will not mark walls.

Your safety equipment dealer will give you full information... or write to:

ROSE MANUFACTURING CO.

Safe-Hi
DENVER

2700 W. Barberrry Place

BURN-QUEL AEROSOL BURN SPRAY



Burn-Quel was designed to provide immediate relief to burns and scalds by means of a fine, aerosol spray. The all-oil formula eliminates the necessity of cleaning the affected area prior to treatment.

Burn-Quel is packaged in an attractive, hand-sized, non-breakable, 2 oz. plastic bottle.

For your FREE sample and descriptive literature, send us your name under your Company letterhead.

A. E. HALPERIN CO., INC.
BOSTON 18, MASS.
YOUR SAFETY — OUR BUSINESS

Circle Item No. 112—Reader Service Card

National Safety News, December, 1957

NOISE CONTROL

A publication of the
Acoustical Society of America

Exclusively devoted to the discussion and solution of noise and vibration problems in industry. Written and edited by leaders in the field.

Published in non-technical language, **NOISE CONTROL** is invaluable to safety engineers and directors, personnel managers, industrial hygienists, medical directors, and all executives concerned with health and safety problems.

If you have a noise problem, you need **NOISE CONTROL**.

Subscription \$8.00 annually—single copy, \$2.00. New subscriptions beginning with Vol. 4, January, 1958 will receive, gratis, one additional copy.

NOISE CONTROL

Dept. E, 335 East 45th Street
New York 17, N. Y.

Circle Item No. 114—Reader Service Card

CARING FOR WAXED FLOORS IS...



A cinch with Sanax

It waxes as it cleans!

REDUCES THE FREQUENCY OF REFINISHING

Sanax was developed to permit frequent cleaning of waxed floors *without washing away the finish* . . . and to eliminate waste in wax and labor. A neutral liquid soap with a wax base, *Sanax* not only quickly removes dirt, oil, and grease, but leaves a *thin film of wax*. In fact, regular use of *Sanax* to machine-scrub or damp-mop waxed floors *actually prolongs the life of the finish*, and thereby reduces refinishing costs on a year-to-year basis.

Like all *Finnell Fast-Acting Cleansers*, *Sanax* is specially designed for the greater speed of machine-scrubbing, and works as effectually in a *Combination Scrubber-Vac* as in a *Conventional Scrubber-Polisher*. And because *Sanax* is processed from pure vegetable oils, it's *safe for all floors*.



A 100 Series
General-Purpose
Finnell
11, 13, 15, 18"

Find out how you can simplify and reduce the cost of caring for waxed floors. There's a *Finnell Floor Specialist* nearby to help you choose the waxes and cleansers that are exactly right for your needs. *Finnell* makes a complete line, so you can depend on unbiased advice. In fact, *Finnell* makes everything for floor care! For consultation, demonstration, or literature, phone or write nearest *Finnell Branch* or *Finnell System, Inc.*, 2212 East Street, Elkhart, Indiana. Branch Offices in all principal cities of the United States and Canada.



- A mild liquid wax-soap for machine-scrubbing or damp-mopping waxed floors
- Leaves a lustrous anti-skid protective finish
- Highly concentrated . . . economical to use

FINNELL SYSTEM, INC.

Originators of Power Scrubbing and Polishing Machines



BRANCHES
IN ALL
PRINCIPAL
CITIES

Circle Item No. 115—Reader Service Card

New

SAFETY EQUIPMENT

Product announcements in this section are reviewed for compliance with the advertising policy of the NATIONAL SAFETY NEWS. Inclusion should not, however, be construed as endorsement or approval by the National Safety Council.



Step Ladders

Three advance-design step ladders, the Underwriter, the Electric and Samson, are designed to provide maximum durability and longer ladder life.

All three feature flush steps to minimize chances of breakage in handling or transport. Each ladder bears inspected labels of Underwriter's Laboratories, Inc.

For added strength the Samson offers new bar-type back construction. This ladder is available in 3 to 10 ft sizes. The Underwriter has wider, stronger, 3½-in. side rails, and is available in 3 to 20 ft sizes. The Electric Step Ladder is available in 3 to 12 ft sizes.

The Patent Scaffolding Co., Inc., 3821 12th St., Long Island City 1, N. Y. (Item 301)



Water-Based Hydraulic Fluid

Irus Fluid 902 is a water-based hydraulic fluid that is fire resistant

even when exposed to molten magnesium.

In extensive testing, the fluid was directed onto molten magnesium with a portable spray gun. The water in the fluid was immediately given off as steam, after which the oil burned weakly with a small flame that died out quickly. At no time did continuous spraying of the fluid into the magnesium represent a fire hazard.

In another test, a pint of the fluid was poured into the molten magnesium. The worker was in no danger even though his hand was over the pot

at the time. The fluid formed into small globules that raced around the surface of the pot and finally collected into one mass in the center. At this point the fluid's water content vaporized. This was followed by a slight residual flame no higher than a few inches that was restricted to the pot.

In both tests there was no flashback, fire or explosion. The fluid may be used safely in and around machines die casting magnesium, aluminum or zinc.

Shell Oil Co., 500 W. 50th St., New York 20, N. Y. (Item 302)



Dry Chemical Portable Extinguisher

This pressure-operated, 5-lb. dry chemical portable fire extinguisher has been approved by the U. S. Coast

Guard for use on yachts. Also approved are new cartridge-operated twenty and thirty pound models. The pressurized 20 and 30-lb. dry chemical portables are designed for protection of shore hazard areas like fuel docks.

The portable can be serviced following discharge by simply pouring 5 pounds of dry chemical into the powder chamber and with the aid of an air line, charging the unit with 150 lb of compressed air.

The nozzle discharges a cloud-like pattern which is most effective for extinguishing Class B (flammable liquid) and Class C (electrical) fires. With a range of 5 to 7 feet, the cloud pattern also eliminates the possibility of splashing burning substances as a result of too forceful a discharge stream. A gauge is built into the extinguisher's handle and shows the exact pressure carried.

Walter Kidde & Co., Inc., 145 Main St., Belleville 9, N. J. (Item 303)

For More Information—Circle Item Number on Reader Service Postcard



Non-Skid Work Gloves

Thousands of tiny non-skid plastic dots embedded in a new fabric are the secret behind this "Mighty-Grip" work glove. The glove

is a tough, featherlight industrial glove that provides "safety grip" without sweating hands or tiring fingers.

Each square inch of the glove contains 300 dots permanently molded into the cloth. Laboratory tests show that the abrasive wear is absorbed by the dots with little or no wear in the fabric itself. The dots are made of a special plastic that grips smooth surfaces, bulky objects and small odd-shaped parts.

The glove is comfortable because the strong, tear-resistant fabric is light weight and flexible.

Industrial Glove Div., Riegel Textile Corp., Conover, N. C. (Item 304)

Nylon and Plastic Coated Control Cables

These new cables are made from Hi-Fatigue PREformed Galvanized Aircraft Steel Cable. The new materials used and the new processes in bonding the nylon and plastic to the cable have considerably improved the cables and they will have many uses throughout industry.

The products are now supplied for pre-fabricated wire rope assemblies. This means that a nylon and plastic coated or stainless steel wire rope with fittings permanently attached in specified units is prefabricated for use on equipment.

With this nylon-coated cable and the plastic-coated cable, industry now has a product that resists corrosion and is especially useful where the hands must come in contact with the rope.

Macwhyte Co., 2902 14th Ave., Kenosha, Wisc. (Item 305)



Safety Clothing

"Lite - Kote" neo-nylon welders' clothing features a three-piece cape, sleeve and

bib which allows a welder to operate with sleeves only, bib, or a complete unit of all three. The product resists welding sparks, and wears very well. It is extremely light for the comfort of the operator. Aprons, blankets and safety curtains are also available in the material.

Another new item is Dacron clothing to be used for lint-free electronic conditions and acid and se-

vere chemical operations. The fabric has received a Zelan treatment which prevents a quick bleeding of acid and also gives a high polish to the cloth for lint operations. The clothing is normally made to order to size for industrial employee purchase, or where the factory supplies the garments to their workmen.

Robin W. Adair Co., Inc., Avoca, N. Y. (Item 306)



Personnel Static Device

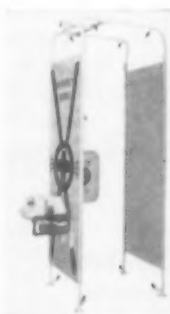
"Legstat," worn under the arch of the shoe, permits drainage of static from the body to conductive floors. Constant contact is main-

tained with the floor.

The device is secured to the shoe by an elasticized band which fits comfortably around the vamp, or upper part, of the shoe. Skin contact is made by a light-weight metal plate worn in a garter assembly on the outer side of the leg. The assembly is attached with a snap-on button.

Periodic laundering may be done without damage.

Walter G. Legge Co., Inc., Architects' Bldg., 101 Park Ave., N. Y. 17, N. Y. (Item 307)



Emergency Shower Unit

For human protection against fire, acids, caustics, chemicals, radiological, bacteriological, biological and other contaminants, this emergency shower, decontamination shower and eye, nose and mouth wash unit is designed for use as a combination or station on inside or outside installations.

The showers use modern water spraying techniques to rapidly quench fire, dilute and remove acids or other chemicals and foreign materials contaminating the body or clothing. In addition to four overhead sprays, two sprays are provided for the eyes and face. Four bottom sprays are directed upward under smocks, coats, etc.

The unit is available with modifications such as frostproofing, treadle operation, an additional third panel for wind protection and additional eye sprays to assure complete body coverage under extreme wind conditions.

The contaminated person moves the "bat-wing" gate which opens a fast operating valve, permitting immediate saturation, yet gentle flow of water over the head and face.

Logan Emergency Showers, P. O. Box 111, Glendale, Calif. (Item 308)

For More Information—Circle Item Number on Reader Service Postcard



**Welder's Eye
Shield**

The "Cyclops" provides increased comfort in the wearing of welders' eye shields.

The conventional style coverall welding goggle is made of soft, pliable, lightweight, plastic. The opaque frame form-fits comfortably to the contour of the face.

Easier changing of plates from front of eye shield is accomplished with a single-piece, slide frame which acts as both a lens inserter and injector. No springs or washers are needed.

Standard filter and standard CR-39 shatter proof, lightweight plastic cover plates provide maximum protection. Style 5071 for Chippers is an adaptation of Style 5070.

Welsh Mfg. Co., 11 Magnolia St., Providence, R. I.
(Item 309)



**Scaffold
Window
Washer**

The "Wind-O-Washer" has been designed specifically for washing sealed windows and the curtain-walls of steel and aluminum of today's

newer buildings.

The electrically operated window washing scaffolding rises, lowers and moves horizontally along the side of a building through push-button control. The scaffolding, complete with padded bumpers, is suspended from a sturdy pulley-mechanism which travels along a track on the roof. Movement is push-button controlled from the scaffold. Turntables at building corners facilitate negotiation around all sides as well as providing a means of removing the unit from sight when not in use. Safety factors have been incorporated into the "Wind-O-Washer." All electrical equipment is fully enclosed and weather-proof hoisting cables are of galvanized steel with a large safety factor. Separate motors are used for horizontal and vertical movement. Cable hitches are specially forged for greatest possible strength.

Economy Engineering Co., 4518 W. Lake St., Chicago 24, Ill. (Item 310)

Conductive Floor Cleaner

Safety engineers in paint and solvent plants, powder plants, gas properties and other industries where conductive floors are used will find this UL tested conductive floor cleaner excellent for hazardous locations.

UL found that the specialized cleaner does not alter the conductive properties of the floor in any way. Ordinary cleaners, and even plain tap water, tend to leave a dielectric residue. The conductive floor cleaner does not leave this type of residue, even when used with hard water.

The new product was developed to meet requirements of the National Fire Protection Association Code No. 56 relating to conductive floors.

Hillyard Chemical Co., 402 N. 3rd St., St. Joseph 1, Mo. (Item 311)



**Anti-Freeze
Pressurized
Extinguisher**

A 2½-gal. air-pressurized, anti-freeze (loaded stream) fire extinguisher operates at 125 psi. It is constructed of lightweight, stainless steel with the shell tested to 500 lbs. As it is pressurized through the nozzle, rather than through a separate pressurizing fitting, there are no parts that

can be tampered with or become a source of leakage. Time-tested "O" ring seals eliminate leakage and allow assembly without special tools.

The gauge has a red area showing instantly when to pressurize. A green area shows when the extinguisher is in operating condition.

The unit has been approved by the Underwriters Laboratories, Inc., with a 2-A, 1-B rating for use on Class A and B fires.

American LaFrance Corp., 100 E. LaFrance St., Elmira, N. Y. (Item 312)



**Chemical
Resistant
Clothing**

**Controlled
PVC - impregnated
clothing and
aprons that com-**

bine light weight and unusual flexibility with excellent chemical and abrasion resistance are made from a fabric base coated on both sides with a specially formulated plastic. The clothing and aprons resist chemicals and solvents of virtually every type. These include acids, alkalis, fats, greases, oils, alcohols, petroleum products and waxes.

The seams are sewn with chemically-resistant synthetic thread. Clothing seams are then shielded and welded electronically for added strength. The clothing has electronically welded plastic buttons unless otherwise specified. This provides a non-conductive garment.

For More Information—Circle Item Number on Reader Service Postcard

The tough polyvinyl chloride coating not only resists abrasion but is difficult to puncture and does not crack, peel or become tacky.

Jomac, Inc., 6128 N. Woodstock St., Philadelphia 38, Pa. (Item 313)



**Metal Frame
Safety Spectacles**

Safety, with comfort and advanced styling, is offered in the "Style-Ize" metal frame. The new concept safety spectacles meet all ASA requirements for frame construction, structural strength and design, optical qualities, impact resistance, non-flammable qualities and resistance to corrosion.

The unit features: 5-barrel nickel steel hinges; end-piece screw-guide for quicker lense changing; spatula temples with plastic paddle tips or spatula cable type temples; optilite or glass lenses; "Offset" bridge design for added strength and a choice of sideshields.

The spectacle is available in a wide range of bridge sizes with a choice of nose pads—soft poly or hard acetate which are easily attached or detached.

U. S. Safety Service Co., 1535 Walnut St., Kansas City 8, Mo. (Item 314)



**Twin-Palm
Gloves**

A reversible hot mill glove that has two thumbs is now available. The "Twin Palm" glove has a heavy nap and double thickness. This, combined with its reversible qualities, offers comfort through cushioning, protection against rough materials, and insulation against heat and extra wear.

The extra thumb on each glove tucks away until it is necessary to reverse the gloves. The manufacturer recommends wearing each set of palms through the second ply, then changing back and forth until the gloves are worn out.

David's Gloves, Inc., 23 W. Pleasant, Springfield, Ohio (Item 315)

Synthetic Floor Waxes

Two new waxes, "Raltec" and "Lumex," give anti-slip protection for all types of floors.

"Lumex" is fortified with Du Pont "Ludox" and polyethylene. It is designed for all types of floors where fast or heavy traffic indicates need for maxi-

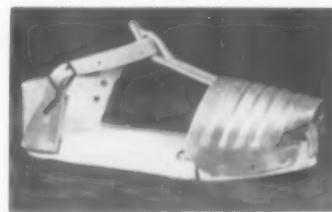
mum anti-slip resistance. "Raltec" contains polyethylene (synthetic plastic) to give good life and good anti-slip qualities and a long-lasting gloss on all types of flooring.

Wyandotte Chemicals Corp., J. B. Ford Div., 130 Clark St., Wyandotte, Mich. (Item 316)

Blue Asbestos

This stronger asbestos does not achieve its color by dyeing but is mined like white asbestos and is in its natural blue color. The 100% pure asbestos contains no fillers. It is said to have a higher resistance to fire and heat, and greater strength than any other fibers and offers increased resistance to acids, caustics and other corrosives. High tensile and abrasive strength give it longer life. It is available in welding blankets and curtains.

Singer Glove Mfg. Co., 860 Weede St., Chicago 22, Ill. (Item 317)



**Strap-On
Wooden Sole
Shoe**

A corrugated metal toe guard on this strap-on wooden soled shoe makes it desirable for hot jobs.

The corrugated guard extends back and over the toes and is high enough to fit over any regular safety shoe.

Heavy leather straps and counter add to the durability of this sandal.

Reece Wooden Sole Shoe Co., 13th St.—41st Ave., Columbus, Nebr. (Item 318)



**Heat Resistant
Asbestos Cover**

"Kamklad," is a new fire-protective, heat reflecting, aluminized asbestos cloth that is being used as a cover for catalytic exhaust purifier units installed on the counterweight of fork lift trucks. The cover protects the driver from heat generated by the purifier unit which eliminates, by catalytic burning, as much as 90% of the carbon monoxide and other fumes in gasoline exhaust. This is an especially important safety measure in a closed-in area.

"Kamklad" resists heat from within as well as from without and can also be used to retain heat in specific ways. The cloth is a tightly woven asbestos cloth surfaced by a special process with a heat protective aluminum foil. The smooth aluminum foil surface reflects over 90% of all radiant heat.

Keasbey & Mattison Co., Ambler, Pa. (Item 319)

For More Information—Circle Item Number on Reader Service Postcard



Storm Safety Boot

A new method of shoe construction used in the "Sta-Dri 8" steel toe safety boot keeps workers' feet dry

in the worst weather.

Not only is this boot completely insulated against freezing temperatures, but the upper leather is Sylflex tanned to prevent water penetration. These two features combined with a construction that seals all stitching holes with a waterproofing compound insures dry, comfortable feet. Any plant or operation having outside work were sloppy conditions exist will be interested in this boot.

Iron Age Safety Shoe Div., Dept. WW, H. Childs & Co., 1205 Madison Ave., Pittsburgh 12, Pa. (Item 320)



Stainless Steel Sterilizer

The "Aervoid" stainless-steel, pedal-operated sterilizer has a revolutionary whirling spray nozzle. The unit washes with a scrubbing action, rinses, sterilizes, deodorizes and

pre-heats. It is adaptable to low or high boiler pressures and will operate under several water and steam combinations.

The unit is designed for use wherever refuse cans, mixing kettles, stock pans, large kitchen utensils and insulated containers need cleaning and sterilizing to preserve sanitary conditions. The "Aervoid" will be especially useful for large industrial plant cafeterias.

Vacuum Can Co., 19 S. Hoyne Ave., Chicago 12, Ill. (Item 321)

Acid-Resistant Work Clothes

Dacron work clothes are available in shirts, pants, coveralls and laboratory coats. The blue or gray clothes are made of a preferred fabric that resists damage by acids and corrosive chemicals and is exceptionally light weight. Despite the lightness, the material is sturdy with high tenacity and tensile strength. The apparel is wrinkle resistant, washes easily and dries quickly.

Another line of acid-resistant work clothes are tailored of lightweight, gray, 100% dynel. These

shirts, pants, coveralls and laboratory coats provide greater comfort in addition to the recognized qualities of acid-resistant dynel.

Worklon, Inc., 253 W. 28th St., New York, N. Y. (Item 322)



Aluminized Asbestos Fire Suit

This entry suit consists of a helmet, jacket, trousers, shoes, mittens and carrying

case which as a unit weighs approximately 23 lb. Extreme pliability allows the suit to be donned in less than two minutes. It is scientifically constructed and has two basic inner linings of neoprene treated fiberglass cloth which serve as a vapor barrier, plus a 1-in. layer of fibre glass insulation bonded to aluminum foil and an outer layer of 3-M aluminized asbestos.

The wearer of the suit, equipped with a self-contained breathing apparatus, can safely enter into direct flame with full protection. The suits have been tested under high temperature conditions in the oil fields and by fire departments. Demonstrations have been made where the suit has been used in over 2000 F. temperatures for a four minute period in JP-4 Jet fuel, hydraulic fluid, lacquer thinners, dope and other flammable liquids.

Safety Clothing & Equipment Co., 1990 E. 69th St., Cleveland 3, Ohio (Item 323)



Handling Tongs

Tongs for chemical laboratories and shops offer

protection from heat and dropping danger. "Nip-tongs" handle small parts safely and may be used in shops of many types, especially where small tools, such as punches are heat treated in furnaces and for quenching and carrying parts from one location to another. The tongs will not let go until intentionally released as the tension mechanism gives a strong hold on the object being carried until the user releases the spring by a slight pressure on the trigger. The "Niptong" can also be used in laboratories for removing a hot crucible from an oven or for handling any hot or corrosive material of small size. They are available in 12 and 24-in. lengths.

Danow-Williams Co., 1426 Evers Ave., Westchester, Ill. (Item 324)

For More Information—Circle Item Number on Reader Service Postcard



Safety Clothing

"Greenwear" is an acid and heat resistant line of safety clothing. Coats (both standard and surgical), pants, coveralls, overalls, helmets, aprons, sleeves, leggings, spats, capes and sleeves and many other items will be available in the new material.

The acid resistant, vinyl coated fiberglass fabric is a distinctive green color. In addition to offering acid resistance, it also repels light molten splash. "Greenwear" will be tailored for maximum protection and comfortable fit. The safety clothing can also be tailored for use with all types of respiratory equipment and other safety aids.

Wheeler Protective Apparel, Inc., 226 W. Huron St., Chicago, Ill. (Item 325)



Plant Visitor Goggles

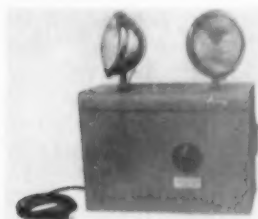
Eye safety and comfort are said to be enhanced

with the introduction of visitor's spectacles called "Guest-Goggles."

The new glasses have been designed for wear by plant visitors, inspectors and others who have occasion to be exposed to semi-hazardous working conditions such as woodworking, buffing and grinding.

The glasses feature attractive styling and unusual lightness and the lenses are made of optical quality plastic (.050 in. thick) in the popular "squared shape" style; temples are broad and angled to permit the safety glasses to be worn over most prescription glasses. A choice of clear or green-glare-absorptive lenses is available.

Sellstrom Mfg. Co., 222 S. Hicks Rd., Palatine, Ill. (Item 326)



Automatic Emergency Lighting

Two products will be combined to produce a new concept in the field of automatic emergency lighting: The new Light Warden Chargomatic emergency lighting unit will utilize a lead calcium battery. The new unit will be called Light Warden Calcomatic and is designed to provide safe, dependable and economical emergency lighting protection.

The characteristics of the plastical battery are particularly well suited for emergency lighting service and when combined with the fully automatic

operation of Light Warden units will carry a guarantee of 15 years. This is made possible for several reasons: Plastical batteries contain no antimony to damage the negative plates. They use 1/5 as much current to keep them in a fully charged condition and lower charging rates result in stronger, longer lasting positive plates. Because they consume less current, there is less electrolysis of water.

The automatic features of Light Warden will be retained. It will contain no manually operated switches or timers so that correct charging rates are maintained constantly, automatically.

Electric Cord Co., 195 Williams St., New York 38, N. Y. (Item 327)



Self-Levelling Light Bracket

A new gravity-stabilized swivel bracket makes this manufacturer's Beacon Ray and Fireball revolving emergency warning lights more

effective when installed on dump trucks.

A swinging, counter-balanced metal weight prevents the light from tilting, regardless of the angle of the truck or its body. The new device was created to reduce highway hazards to cinder, salt and other dump trucks and service vehicles with raised bodies.

Two types of brackets have been designed. Model 417-A (illustrated) is for use with the larger and heavier Beacon Ray light, and Model 4FB-A is a more compact bracket made for the portable Fireball. Both brackets have simple screw connections, and snap-clip electrical connectors.

Federal Sign & Signal Corp., 8700 S. State St., Chicago 19, Ill. (Item 328)



Floor Absorbent Dispenser

The "Mobile Unit" dispenser saves time, labor, material and is easy to use.

The sturdy, all-steel unit has a detachable side waste receptacle and noiseless, bearing swivel wheels. A

handy side bracket holds a shovel or scoop and the unit will hold 150 lbs. of the manufacturer's floor absorbent. An automatic dispenser delivers absorbent to the dispenser floor where shovelfuls can be withdrawn without waste.

A screen top permits easy salvaging of absorbents by screening out refuse. Absorbents slip through the screen for reuse.

Oil-Dri Corp. of America, 520 N. Michigan Ave., Chicago 11, Ill. (Item 329)

For More Information—Circle Item Number on Reader Service Postcard



Tension Wire Puller

A new model tension wire puller, designed especially for distribution lines, makes it possible for public utility companies to string

new overhead cables safely through energized lines with a minimum risk to personnel and equipment.

The manufacturer states that the new puller is similar to, but lighter than, the heavy duty transmission line puller.

Used in conjunction with the manufacturer's tension wire stringer, the new equipment can be pulled with a half ton truck. The new distribution line puller will safely handle two conductors simultaneously.

Petersen Engineering Co., Inc., 460 Kifer Road, Santa Clara, Calif. (Item 330)



Safety Saw

This oscillating safety saw will cut wood, plastics, plaster, rubber,

textile and soft metals. Since the saw cuts by oscillation rather than rotation, it is safe to handle since superficial contact with skin and clothing will not cause damage. The blade binds when it is applied to flesh or other material which gives with the movement. In addition, the manufacturer claims there is little danger from flying chips or broken blades.

The saw is able to cut openings in a wall or any other hard surface mentioned without chipping or

drilling holes for a hack saw or chisel. The unit weighs 3½ lbs. and is extremely maneuverable. The housing is made of die cast aluminum and it is available with a variety of blades for metal cutting and slitting.

Stryker Mfg. Co., 420 Alcott Ave., Kalamazoo, Mich. (Item 331)



Four-Directional Fork Truck

A major change in the handling of long loads in narrow aisles has been made possible with this four-directional fork truck.

The truck can travel forward, backward, and sideways to the right and left in addition to having the conventional lifting features. This versatility is obtained with a special arrangement of the load wheels. One load wheel is a free swiveling caster and the other is hydraulically adjustable by the operator for conventional travel or turned 90 degrees for side travel. Loads 14 ft. or longer can be handled easily in aisles as narrow as 7 ft.

When handling a long load, the truck is moved forward with the load wheels set in the normal position. The load is elevated, and the operator backs the truck off with the load across the forks. In this manner the truck moves down a wide main aisle to the narrow aisle storage area. At the entrance to the proper storage aisle, the operator adjusts the hydraulically controlled load wheel for side travel and moves into the narrow aisle. To spot the load in the assigned storage location, the truck wheels are returned to their normal position and the truck is moved forward to deposit the load.

The Raymond Corp., 286-159 Madison Ave., Greene, N. Y. (Item 332)

NEWS ITEMS

E. D. Bullard Co.

The Beaver Machine Works, San Francisco, has been purchased by this California manufacturer of industrial safety equipment. Beaver Machine Works manufactured parts for many types of industrial safety equipment. The new member of the Bullard Co. has manufactured the Bullard safety hoist hooks.

* * *

R. S. Landauer Jr., & Company

This Park Forest, Ill., company has announced the appointment of Atomic Associates, Inc., as sales representatives for their film badge services. The new affiliate will service the eastern and southern

parts of the United States. Atomic Associates maintains offices in Lexington, Mass., Jamaica, N. Y., Philadelphia and Monroeville, Pa.

* * *

The Wilson Rubber Co.

A three-year expansion program calling for remodeling of present facilities and the addition of new equipment has been launched by this Canton, Ohio, manufacturer of rubber gloves. The program is the latest step in an expansion program initiated after the firm was purchased by Becton, Dickinson and Co., Rutherford, N. J., in 1954.

* * *

For More Information—Circle Item Number on Reader Service Postcard

NEWS ITEMS

CONTINUED



The Fibre-Metal Products Company

R. G. "Bob" Tressler, formerly with the General Electric Welding Department, Marketing Section has joined the sales staff of this Pennsylvania manufacturer of welding accessories and safety equipment. Mr. Tressler has been closely associated with welding accessories and equipment for a number of years and will be a member of the factory sales staff located in Chester, Pa.

* * *



AMF DeWalt, Inc.

This Pennsylvania manufacturer of woodworking and metal cutting equipment has appointed three new sales executives. Thomas E. Berry has been named assistant general sales manager in charge of field sales personnel training and develop-

T. E. Berry

ment. In addition he will be responsible for dealer personnel training in connection with dealer schools conducted by De Walt.

C. B. Hull, III, has been appointed assistant general sales manager responsible for internal sales operations. He will also serve as an



C. B. Hull, III

advisor to management on market conditions and general sales policy.

Marlin R. Boyer has been named to the position of sales promotion manager. Mr. Boyer will be responsible for the coordination of De Walt product promotion at national trade shows and exhibits and deployment of salesman-demonstrators.



M. R. Boyer

Detex Watchclock Corporation

Richard C. Smith, Jr., Upper Montclair, N. J., has been elected to the newly created post of Vice-President, Marketing, of this manufacturer of portable watchclock systems. Mr. Smith joined Detex in 1953 as National Sales Manager.

* * *

Industrial Acoustics Company

The appointment of sales representatives for the company's Quiet-DUCT Silencers for fan noise in air handling systems; Quiet-VENT Silencers for the return of air from offices, and Quiet-FLOW Cooling Tower Silencers has been announced.

John B. Hewett Company, Inc., has been appointed to cover the Metropolitan New York Area and sales in the Indianapolis, Indiana, area will be covered by A. G. Allen and Company.

* * *



E. L. Babcock

Gro-Cord Rubber Company

This Lima, Ohio, manufacturer of soles and heels has named Don J. Paul and E. L. Babcock to new executive positions.

Mr. Paul has been with the company four years and has been named sales manager. Mr. Babcock, a veteran

of several years in bottom stock sales, will take over as sales promotion manager in addition to continuing field sales activities.

Charles E. Clarke has been added to the firm's sales staff and will be the company representative in New York State.



D. J. Paul

* * *



"Automatic" Sprinkler Corp. of America

Clyde M. Wood has been named to head the sales engineering training program of this Youngstown, Ohio, designer, manufacturer and installer of fire protection devices and systems. Mr. Wood has been with Automatic Sprinkler for 42 years

and has served in various capacities and locations. He has authored many technical publications for the company and will resume this activity as part of his new duties. He is also noted for his pioneering of the deluge system of fire protection for aircraft hangers.

* * *

BELVA LOCKWOOD



For President !!!



Political cartoon from "The American Past" by Roger Butterfield, Simon and Schuster, Inc. publishers.



SHE was small and slender and very handsome in her new blue gown as she stepped onto the roughhewn platform. Above her, flags snapped against the summer sky. Before her, the lady delegates of the Equal Rights Party stood up and cheered.

Belva Anne Lockwood accepted their cheers, and their nomination, to become in 1884 the woman who ran for the Presidency of the United States.

A gallant choice she was, too. Defying massive prejudice, she had fought for and won a college education, a law degree—the first ever given an American woman, and, finally, the right to plead cases before the Supreme Court. (Where, among other triumphs, she won a \$5,000,000 settlement for the Cherokee Indians.)

SHE didn't expect to be President; that wasn't her point. She would run to make America conscious of women's right to political equality. And run she did. Ridiculed in the press, hooted on the street, even denounced by fellow-suffragist Susan Anthony, she nevertheless received 4,159 popular ballots from six states.

More important of course, she dramatized, as no one else had, women's battle for the right to vote.

Before Belva Lockwood died, her fight was won and America had gained the strength of millions of new "first class citizens," her women. That strength today mightily reinforces the living guarantee behind one of the world's soundest investments—United States Savings Bonds. It is one more reason why you know that in America's Savings Bonds your savings are safe and your return is sure. For real security, buy Savings Bonds, through Payroll Savings or at your bank.

Now Savings Bonds are better than ever! Every Series E Bond purchased since February 1, 1957, pays 3-1/4% interest when held to maturity. It earns higher interest in the early years than ever before, and matures in only 8 years and 11 months. Hold your old E Bonds, too. They earn more as they get older.

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TRADE PUBLICATIONS

These trade publications will keep you up-to-the-minute on new developments in safety equipment and health products. All catalogs are free, and will be sent without obligation. Just circle publication number on the Reader Service Postcard.



Industrial Safety Equipment Catalog:

10th Edition—1958-59. Industrial Safety Equipment and Materials Handling Catalog offered by the New Jersey Safety Equipment Co., 299 Park Ave., East Orange, New Jersey. This catalog includes the broadest selection in the industrial safety equipment and appliances field, as well as in the materials handling field. This new catalog has approximately 250 pages and is an ideal source for selection of equipment by Safety Engineers, Maintenance Supervisors and Plant Engineers.

For more details circle No. 401
on enclosed return postal card

Evidence from the Jomac Cost-Reduction Plan:

A 12-page booklet, shows how the analysis of glove use has cut costs in typical industries. In its forward, the "Evidence" booklet points out that in the buying of industrial gloves three important factors must be considered: (1) price of the gloves, (2) degree of protection they give the workers' hands and (3) wearing qualities—including comfort and flexibility. Jomac, Inc., Philadelphia 38, Pa.

For more details circle No. 402
on enclosed return postal card

Safety Shoes:

Catalog 217, two-colors, describes company's complete line of safety shoes. Featured are double duty executive oxfords, Goodyear Welt workshoes, Heavy duty workshoes, special types and high cuts, special safety work shoes for women, and rubber footwear. Lehigh Safety Shoe Co., Emmaus, Pa.

For more details circle No. 403
on enclosed return postal card

Safety Products:

Catalog alphabetically indexed, shows recommended safety devices for particular hazards. Its 34 pages contain a complete study of eye, face and head safety items. The reference listing is broken down into hazard, occupation, and trade name of protective items. Sellstrom Mfg. Co., 222 Hicks Rd., Palatine, Ill.

For more details circle No. 404
on enclosed return postal card

First Aid:

Catalog 100, illustrates company's complete line of first aid medical supplies and equipment. Considerable technical data included. Medical Supply Co., Rockford, Ill.

For more details circle No. 405
on enclosed return postal card

Extinguisher Inspection Guide:

Complete information for conducting a comprehensive inspection of extinguishers is outlined in this handy brochure. Eight types of extinguishers are featured, includ-

ing soda-acid, automatic clear water, foam vaporizing liquid, etc. Buffalo Fire Appliance Corp., 221 Crane St., Dayton, Ohio.

For more details circle No. 406
on enclosed return postal card

Floor Maintenance:

A quarterly booklet that deals with everyday floor maintenance problems. This issue features an article on the care of asphalt tile floors, and includes a chart outlining their particular maintenance problems, causes, and remedies. Hillyard Chemical Co., St. Joseph 1, Mo.

For more details circle No. 407
on enclosed return postal card

Safety Signs:

New catalog illustrates in color a wide variety of industrial, commercial and highway safety signs, made in accordance with the A. S. A. Code. Catalog is well indexed by subject. Ready Made Sign Co., Inc., 115 Worth St., New York 13, N. Y.

For more details circle No. 408
on enclosed return postal card

Foot, Toe and Shin Guards:

Illustrated folder gives data on a variety of aluminum, steel and fibre guards, designed to be worn over shoes or clothing for the protection of toes, feet, shins and knees. Units can be worn separately or in combination. Ellwood Safety Appliance Co., 225 Sixth St., Ellwood City, Pa.

For more details circle No. 409
on enclosed return postal card

Sound Absorbers:

Illustrated bulletin describes easily how to install portable sound absorbing devices that can be used in noisy areas to decrease the sound level. Bulletin shows the box-like device suspended from the ceiling in a machine tool area. Etof Hansson, Inc., 711 - 3rd Ave., New York 17, N. Y.

For more details circle No. 410
on enclosed return postal card

Head and Eye Protection Equipment:

The Dockson Corporation has available a folder describing the most popular items in their complete line of head and eye protection equipment. The folder includes goggles for welders and chippers, plastic eye savers, spectacle type goggles, eye shields, welders' helmets, masks, hats and lenses. Dockson Corp., 3829 Wabash Ave., Detroit, Mich.

For more details circle No. 411
on enclosed return postal card

Switches:

Subject of 4-page Bulletin 28-E is force control switch for automated systems. Used for compressions and tensile foods; to prevent hoise and crane overload. Includes engineering details, specs, prices on 9 capacities of switch. W. C. Dillon & Co.,

Inc., 14614 Keswick St., Van Nuys 58, California.

For more details circle No. 412
on enclosed return postal card

First-Aid Equipment:

Injured workers must be transported quickly and smoothly. Much of the equipment needed for emergency first-aid station is illustrated in catalog 55. The literature features ambulance cots, station wagon installations, folding stretchers, wheel-chairs, and oxygen equipment. Bomgardner Manufacturing Co., 1384 Hird Ave., Cleveland 7, Ohio.

For more details circle No. 413
on enclosed return postal card

Welding Accessories:

48-page catalog describes and illustrates welding accessories, including helmets, shields, electrode holders, weld testing machines, hammers and brushes. Suggestions as to the beneficial use of safety equipment included. Fibre-Metal Products Co., Chester, Pa.

For more details circle No. 414
on enclosed return postal card

Floor Dressing:

This 4-page folder lists the advantages (easy application, slip resistance, no buffing) shows application of a heavy-duty non-wax floor dressing. Shows you how to apply. Outlines floor-improvement plan available to users. Masury-Young Co., 76 Roland St., Boston, Mass.

For more details circle No. 415
on enclosed return postal card

Skin Cleansers:

Four two-page leaflets describe heavy-duty granulated skin cleansers, all-purpose hand cleansing cream, and waterless (pharmaceutical grade) skin cleanser, plus new dispenser for cream, paste, or powdered cleaning agents. G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10, Mo.

For more details circle No. 416
on enclosed return postal card

Safety Marking Tools:

Marking tools for steel plant applications are featured in this new folder. Among the products included are billet marker, tag embossing and tagging outfit, billet mill cut letter stamps, steel stamps and type, and type holders. M. E. Cunningham Co., 1053 Chateau St., Pittsburgh 33, Pa.

For more details circle No. 417
on enclosed return postal card

The Control of Dermatitis in Industry:

This 24-page booklet emphasizes preventive measures in a range of industries. A large chart lists the various working conditions, types of dermatitis prevalent under these conditions and suggested preventive measures. West Chemical Products, Inc.,

42-16 West St., Long Island City 1, N. Y.
For more details circle No. 418
on enclosed return postal card

Welded Grating:

8-page, 2-color catalog describes a heavy-duty grating for use in power houses, loading docks, oil refineries, fire escapes, drain grates, plating rooms, and all types of heavy-duty platforms. The catalog shows the various styles available, gives recommended uses. The Globe Co., 4000 South Princeton Ave., Chicago 9, Ill.

For more details circle No. 419
on enclosed return postal card

Plant Protection:

Folger describes the Guardsman Watchclock System, a tape-recording watchclock that keeps your watchman alert on week-ends and holidays, as well as on week-days. The Guardsman is tamper-proof. It discourages the temptation to skip rounds or shirk duty. Detex Watchclock Corp., 76 Varick St., New York 13, N. Y.

For more details circle No. 420
on enclosed return postal card

Rotary Hand Pumps:

Application of rotary hand pumps to transferring liquids on many different types of jobs is discussed in this bulletin. Blackmar Pump Co., Grand Rapids 9, Mich.

For more details circle No. 421
on enclosed return postal card

Safety Mirrors for Industrial Use:

Safety mirrors designed for use in factories and warehouses where blind corners, cross-aisle intersections, entrances and exits present a safety problem because of traffic accidents are described in this bulletin. Lester L. Brossard Co., 540 N. Michigan Ave., Chicago 11, Ill.

For more details circle No. 422
on enclosed return postal card

Drinking Fountains and

Electric Coolers:

Complete cooler and fountain line for 1958 are featured in this new catalog. This catalog gives a description of all the various coolers and fountains in the line, with dimensions, illustrations and other details of interest to everyone who needs this vital information, in specifying and installing such equipment. The Halsey W. Taylor Co., Warren, Ohio.

For more details circle No. 423
on enclosed return postal card

Safety Eyewear:

A complete line of safety eyewear and lenses designed for every occupational requirement is fully illustrated and described in this 40-page catalog. Manufacturing data, prescription service, and an ordering guide are a few of these special features of the catalog. Bausch and Lomb Optical Co., 635 St. Paul St., Rochester, N. Y.

For more details circle No. 424
on enclosed return postal card

Safety Headgear:

Detailed brochure illustrates the line of safety hats, caps and attachments. (Lamp-brackets, welding helmets, face shields, etc.) The hats are available with a choice of shock-absorbent head bands. Willson Products Division, Ray-O-Vac Co., 2nd and Washington Sts., Reading, Pa.

For more details circle No. 425
on enclosed return postal card

"The Doctor Examines

Your Heart":

Announcing a new sound motion picture, a 6-page folder tells how to use the movie in convincing workers of the importance of regular health examinations. The folder describes the film, and tells what points to stress before and after the film is reviewed. Bray Studios, Inc., 729 - 7th Ave., New York 19, N. Y.

For more details circle No. 426
on enclosed return postal card

Dunking Station:

Cigarette smoking—not only a housekeeping and fire problem—will cause fewer headaches if your plant is equipped with dunking stations described in this bulletin. Various types of cannisters are featured. Standard Industrial Products Co., 920 N. Garfield, Peoria, Ill.

For more details circle No. 427
on enclosed return postal card

Food and Liquid Carriers:

Hot and cold liquids of all kinds can be stored and/or transported in Aer Void Carriers described in this 6-page catalog sheet. Many models are shown, and their construction outlined. Vacuum Can Co., 19 S. Hoyne Ave., Chicago 12, Ill.

For more details circle No. 428
on enclosed return postal card

Tuffy Slings:

Charts, rigger's manual, engineer's handbook and rated working loads are all included in this 60-page sling handbook. Union Wire Rope Corp., 21st and Manchester Ave., Kansas City 26, Mo.

For more details circle No. 429
on enclosed return postal card

Safety Shoes:

Two ways to finance a safety shoe program in your plant are discussed in this brochure. Explained in full is the money-saving-plant-sale plan and the 4-way employee purchase plan. Also includes company's line of safety shoes. Thom McAn Safety Shoe Division, 25 West 43rd St., New York 36, N. Y.

For more details circle No. 430
on enclosed return postal card

Carbon Monoxide Detector:

Explosive gas detection is made possible through the use of a fountain-pen-size indicator. Particularly useful for a spot-check of carbon monoxide contamination in garages, vehicular tunnels, industrial plants, etc. Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.

For more details circle No. 431
on enclosed return postal card

Swivel Fittings:

40-page booklet describes Miller Ball Bearing Swivel Fittings, used as connectors for cables, chains, and tension rods. Complete specification table is included. General Machine and Welding Works, Inc., 119 East 2nd St., Pomona, Calif.

For more details circle No. 432
on enclosed return postal card

Steel Floor Plate:

Skid resistance and other advantages of multi-grip rolled steel floor plate are stressed in this illustrated bulletin. Also gives dimensions, weights, data on allowable loads. Typical uses of the floor plate are pictured. U. S. Steel Corp., Multi-Grip Floor Plate Div., 525 William Penn Place, Pittsburgh, Pa.

For more details circle No. 433
on enclosed return postal card

Skin Cleanser:

Vi-Lan is an all-purpose skin cleanser for use with or without water. Folder gives full details on this product and also includes dispensers for the product. Dameron Enterprises, Inc., 427 S. 29th St., Louisville 2, Ky.

For more details circle No. 434
on enclosed return postal card

Padlocks for Industrial Protection:

Catalog 56, 20-pages features descriptions of padlocks to meet every need, with actual size illustrations of entire line. Special long shackle padlocks are included, as well as super security padlocks, which have an extra short shackle clearance of $\frac{1}{8}$ ", and many others. Master Lock Co., Milwaukee 45, Wis.

For more details circle No. 435
on enclosed return postal card

Portable and Warning Lamps:

Over 100 special-purpose electric lights are illustrated in this 8-page catalog. Items range from pistol-grip searchlights to rotating warning lights. Prices, specifications, illustrations. Carpenter Manufacturing Co., Somerville, Mass.

For more details circle No. 436
on enclosed return postal card

Fire Fighting Systems:

Foldout 8-pager shows how dangerous hazards, such as dip and quench tanks, chemical reactors, drying ovens, can be protected by fixed piping installations. Covers fog and foam sprinkler heads, related equipment. Rockwood Sprinkler Co., 38 Harlow St., Worcester, Mass.

For more details circle No. 437
on enclosed return postal card

Hand Tools:

Well illustrated pocket handbook for tools used by linemen, electricians, mechanics. Its 64 pages contain engineering tables for cables and wires. Also has safety instructions for artificial respiration and pole-top resuscitation. Mathias Klein & Sons, 7200 McCormick Road, Chicago, Ill.

For more details circle No. 438
on enclosed return postal card

"The Greatest Advance in Modern Sanitary Wash Fixtures":

Bulletin K-1294 describes in detail the newly designed Bradley Duo-Washfountains. The new features described and illustrated include easy wall mounting, the absence of the scuff base to provide floor clearance, and the wide hinged foot-treadle which controls the water supply from the sprayhead. Bradley Washfountain Co., Milwaukee 1, Wis.

For more details circle No. 439
on enclosed return postal card

Visualization Made Easier:

New Chart-Pak catalog, 24 pages in color, illustrates and describes the company's full line of pressure sensitive printed tapes, templates and other charting materials. Featured is the new Chart-Pak "TAPE-PEN", a handy tool especially designed to facilitate application of the handy $1/32$ " and $1/16$ " widths of Chart-Pak "Curve Line" Tape. Chart-Pak, Inc., Leeds, Mass.

For more details circle No. 440
on enclosed return postal card

Emergency Showers:

Emergency Showers and Eye Wash Fixtures providing instant protection against effects of caustics, chemicals, fire, fumes and other injurious materials to the eye and body are illustrated and described in this catalog available from Speakman Co., Wilmington, Del. Complete specifications and diagrams included.

For more details circle No. 441
on enclosed return postal card

Industrial Maintenance Chemicals:

Catalog illustrates and describes floor finishes, waxes, soaps, sealers, polishes and cleaners. Each item illustrated and described briefly, and all available sizes are listed. The catalog is punched to fit all loose-leaf sales binders, and folds out into a large spread for easy reference to the products. Industrial Maintenance Division, R. M. Hollingshead Corp., Camden 2, N. J.

For more details circle No. 442
on enclosed return postal card

"Take-It-Away":

"TAKE-IT-AWAY" is the new motion picture film just released by Macwhyte Company, Kenosha, Wisconsin. An educational picture, the film traces the history of slings and shows various types in action. The film explains how the rated capacity of a sling will vary due to stresses caused by the various methods of applying the sling to the load. The film is available to safety associations, engineering societies, clubs, manufacturers, and industrial groups on a loan basis.

For more details circle No. 443



Lee Sonic EAR-VALV

**MECHANICAL hearing protector
NOT AN EAR PLUG**

Why make yourself deaf to protect your hearing? You don't make yourself blind to protect your eyesight!



Inner valve actuated by sound pressure automatically controls sound entering ear; removes harm from noise without interfering with conversation or normal air circulation.

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Send for Our 1958-59 Edition Safety-Material Handlings Mail Order Catalog

**NEW JERSEY SAFETY
EQUIPMENT COMPANY**

Orange 4-4372 and 4-3466

299 Park Avenue East Orange, N. J.

Index to Advertisers

A comprehensive Classified Safety Product Index and a Directory of Safety Equipment Sources appear in the March, 1957 issue.

When writing them, please mention NATIONAL SAFETY NEWS

| | |
|---|---|
| A | L |
| Alan Wood Steel Co. 69 | Legge, Walter G., Co., Inc. 54 |
| Aldon Co. 258 | |
| Aluminum Company of America 231 | M |
| American Chain & Cable Co., Inc. 11 | Macchi & Co. 253 |
| American LaFrance Corp. 73 | Magnesium Co. of America 265 |
| American Optical Co. B.C. | McAn, Thom, Safety Shoe Div. 67 |
| American Tel. & Tel. Co. 235 | McDonald, B. F., Co. 273 |
| Ansul Chemical Co. 229 | Medical Supply Co. 265-270 |
| Audivox, Inc. 221 | Merrill Brothers 267 |
| | Mine Safety Appliance Co. I.F.C. |
| B | Morrison-Pelsue Co. 266 |
| Ballymore Co. 264 | Morrison Products, Inc. 238 |
| Banite Co. 244 | |
| Bausch & Lomb Optical Co. 65 | N |
| Benson & Assoc. 263 | National Safety Council 247-248-249 |
| Bethlehem Steel Co. 63 | New Jersey Safety Equipment Co. 288 |
| Bray Studios, Inc. 245 | Noise Control 275 |
| Brossard, Lester L., Co. 237 | |
| Bullard, E. D., Co. 224-263 | O |
| | Ohio Chemical & Surgical Equipment Co. 256 |
| C | Onox, Inc. 246 |
| Calumet Steel Castings Corp. 244 | Osborn Mfg. Co. 256 |
| Carpenter Mfg. Co. 245 | |
| Chemical Corp. 218 | P |
| Chic Maid Hat Mfg. Co. 264 | Packwood, G. H., Mfg. Co. 74 |
| Chicago Eye Shield Co. I.B.C. | Patent Scaffolding Co., Inc. 215 |
| Colorado Fuel & Iron Corp. 66 | Peterson Engineering Co. 220 |
| Columbus McKinnon Chain Corp. 235 | Practical Mfg. Co. 222 |
| Coppus Engineering Co. 59 | Positive Safety Mfg. Co. 239 |
| Cotterman, I. D. 274 | Prairie State Products Co. 259 |
| | Pulmosan Safety Equipment Corp. 268-269 |
| D | |
| Dameron Enterprises, Inc. 216 | R |
| Detex Watchclock Corp. 228 | Reece Wooden Sole Shoe Co. 239 |
| DeWalt, Inc. 227 | Re-Mar Products Corp. 251 |
| Dow-Corning Corp. 6-7 | Reliance Steel Products Co. 44 |
| Dri-Rite Co. 260 | Riegel Textile Corp. 10 |
| DuPont, E. I., De Nemours & Co., Inc. 71 | Rochester Safety Equipment Co. 255 |
| | Rockwood Sprinkler Co. 5 |
| E | Rose Mfg. Co. 275 |
| Eastman Kodak Co. 43 | |
| Economy Engineering Co. 262 | S |
| Ellwood Safety Appliance Co. 259 | Safety First Products Co. 57 |
| Ericson Mfg. Co. 264 | Safety First Supply Co. 271 |
| Exide Industrial Div., Electric Storage Battery Co. 252 | Safety Tower Ladder Co. 274 |
| | Scott Aviation Corp. 55 |
| F | Sellstrom Mfg. Co. 51 |
| Falcon Alarm Co. 236 | Sigma Engineering Co. 288 |
| Fibre Metal Products Co. 225 | Silver, Fred, & Co. 260 |
| Finnell Systems, Inc. 276 | Speedi-Dri Div., Minerals & Chemicals Corp. of America 70 |
| Frommelt Industries 257 | Standard Industrial Products Co. 241 |
| | Standard Safety Equipment Co. 246 |
| G | Stephenson Corp. 257 |
| General Bandages, Inc. 238 | Stonehouse Signs, Inc. 223 |
| General Machine & Welding Works, Inc. 226 | Surgical Mechanical Research, Inc. 254 |
| General Split Corp. 258 | |
| Gets-A-Lite Mfg. Co. 274 | T |
| Gilbert & Barker Mfg. Co. 230 | Taylor, Halsey W. Co. 254 |
| Globe Co. 240 | Tedcar Products Co. 262 |
| Grinnell Co., Inc. 53 | Tokheim Corp. 241 |
| Gro Cord Rubber Co. 9 | |
| | U |
| H | U. S. Borax & Chemical Corp., Pacific Coast Co., Div. 72 |
| Halperin, A. E., Co., Inc. 275 | U. S. Safety Service Co. 219 |
| Hansson, Elof, Inc. 253-261 | Union Wire Rope Corp. 217 |
| Haws Drinking Faucet Co. 237 | |
| Hillyard Chemical Co. 15 | W |
| Hy-Test Div., International Shoe Co. 18 | Wagner Sign Service, Inc. 243 |
| | Welsh Mfg. Co. 47 |
| I | West Chemicals Products, Inc. 49 |
| Industrial Products Co. 240 | Western Industrial Pharmaceuticals Co. 242 |
| Iron Age Div., H. Childs & Co. 13 | Wheeler Protective Apparel, Inc. 3 |
| | Wickwire Spencer Steel Div., Colorado Fuel & Iron Corp. 66 |
| J | Wilder Mfg. Co. 270 |
| Johnson-Williams, Inc. 266 | Wilkins Co. 250 |
| Jomac, Inc. 234 | Williams Jewelry & Mfg. Co. 261 |
| Junkin Safety Appliance Co. 272 | Wolf, Harry J. Shoe Co. 255 |
| | Wyandotte Chemical Corp. 61 |
| K | |
| Kennedy-Ingalls, Inc. 267 | Z |
| | Zenith Radio Corp. 17 |

Use the **READER SERVICE POSTCARD**

to obtain more information on . . .

• Advertised Products

• New Safety Equipment

• Trade Literature

Here's how it works—

Printed below are two identical Reader Service postcards—the bottom one for your use; the top one for later readers of the issue. All advertisements, New Safety Equipment announcements and Trade Publica-

tion listings carry item numbers corresponding to the numbers printed on the cards. Just circle the numbers of the items you want to know more about, and send us the postage-free card. We'll ask the manufacturer to send you full information—without obligation.

Advertised Products

—feature equipment and services that will help you solve accident problems in your plant. Instead of making a "mental note," make sure you get full information by sending in the card. If no item number appears with an ad, it will be found on the opposite page, next to the arrow. Cover position ads are shown on the cards as: IFC—inside front cover; IBC—inside back cover; BC—back cover.

New Safety Equipment

—shown in the special section has been carefully reviewed. Only new products or newsworthy improvements in existing equipment are considered eligible for this section.

Trade Publications

—are catalogs, brochures, spec sheets and booklets—a wealth of helpful literature—describing equipment and services that will assist you in comparing before you buy. You can build a valuable safety equipment reference file with these free publications.

IMPORTANT—Be sure to fill in your name, organization and address in the space provided on this side of the postcard.

Please send me more information on the items circled below:

DECEMBER, 1957

(Good until March 31, 1958)

PRODUCTS ADVERTISED:

| IFC | IBC | BC | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 |
| 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 |
| 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 |
| 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 |
| 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 |
| 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 |

NEW SAFETY EQUIPMENT:

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 |
| 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 |

TRADE PUBLICATIONS:

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 |
| 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 |

Please print your name and company in full—do not abbreviate

NAME..... POSITION

COMPANY

ADDRESS

CITY & STATE

Please send me more information on the items circled below:

DECEMBER, 1957

(Good until March 31, 1958)

PRODUCTS ADVERTISED:

| IFC | IBC | BC | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 |
| 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 |
| 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 |
| 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 |
| 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 |
| 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 |

NEW SAFETY EQUIPMENT:

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 |
| 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 |

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| 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 |
| 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 |

Please print your name and company in full—do not abbreviate

NAME..... POSITION

COMPANY

ADDRESS

CITY & STATE

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Keep up-to-the-minute on all the latest advances in industrial safety products and services through the advertising pages and new safety equipment features in the NATIONAL SAFETY NEWS.

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Although the Council does not test or examine the products advertised or mentioned in the editorial features, staff engineers and technicians review all product information in an effort to determine that descriptions and performance claims are accurate. It should not be construed, however, that commercial products are approved or endorsed by the National Safety Council.

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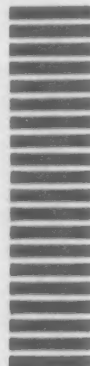
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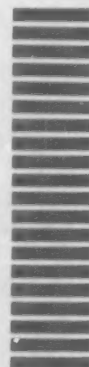
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Before you mail your
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TAKE ANOTHER LOOK AT

- the ADVERTISING pages
- the NEW SAFETY EQUIPMENT section
- the TRADE PUBLICATION section

Make sure all the items you want to know more about are circled . . . check to make sure your name, organization, and address are printed on the reverse side of the postcard . . . THEN mail it today.

CESCO...RIGHT—BEFORE YOUR EYES!



New CESCO plastic frame safety glasses are available in 3 sizes:
No. 375 • 44x37mm.
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No. 377 • 48x41mm.

New CESCO plastic frame safety glasses WITH ULTRA-MODERN LENS STYLE

• These new CESCO plastic frame safety glasses with the F7 shape lenses are not only superior in the safety glass field from the standpoint of fit and comfort, but many users prefer their shape and style to that of most personal glasses.

In addition to their fine appearance, these safety glasses have many outstanding features. Among them are:

Frames are rigid and will retain original shape without bowing

Choice of 2 colors—opaque slate (bluish gray) to eliminate light reflection, or translucent flesh

Nosepads are broad bearing to give comfortable distribution of weight

Lenses are interchangeable—the same lens fits either right or left side

Available in three sizes

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ASK your CESCO Safety Equipment Distributor to show you the new modern plastic frame safety glasses with the F7 lens—and the many other safety glasses and goggles in the complete CESCO line



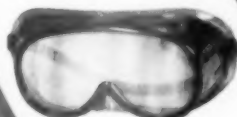
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LITE-KLIP safety glasses



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CESCO



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**Keeps Workers
Comfortable,
More Efficient**

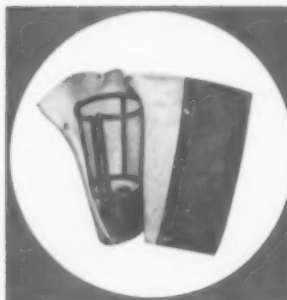


210RA Chaps. Complete frontal protection waist to foot. Two leather straps around back of leg with full circle construction at leg bottom. Aluminized Duck — 210RD

It reflects 90% of radiant heat . . . weighs less than 50% of regular asbestos with good abrasion resistance . . . but above all it keeps workers cooler, more comfortable, more efficient! These are the big advantages of American Optical Aluminized Clothing. What's more coating resists peeling or cracking and under normal conditions provides excellent service.

American Optical Aluminized Asbestos clothing is recommended for protection against high heat (includ-

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1481RA Spring Type Legging. A best seller because no adjustments are necessary. Easy on, easy off! Spring steel frame does double job — protects leg, provides air insulation area between leg and legging. Chrome tanned leather flare with spring clip. Aluminized asbestos on upper part. Aluminized Duck — 1482RD.




7X160RA Legging and 7X161RA Spat. Another popular legging because of unusual design. Spring clip on chrome tanned flare. 3 positions at top and 2 at ankle for steel stay provide snug fit, quick release. Upper part aluminized asbestos. Aluminized Duck — 7X160RD and 7X161RD.



204RA Coat. Completely protects upper body. Wool collar protects neck. Snap fasteners on cuffs for snug fit. All snap fasteners on front have leather-pull tabs for quick removal. All seams double-stitched. Six standard coat lengths. Aluminized Duck — 204RD.



10RA Sou'wester and 1X115 Cowl Hoods. 10RA (Sou'wester type with permanently attached bib) provides ample protection to head and neck. Bib has one-piece lookout of clear glass 2" x 4 1/4". 3 sizes. Cowl hood has snap fastener adjustment. 3 cowl sizes. Aluminized Duck — 10RD and 1X117.

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